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=> fil reg
FILE 'REGISTRY' ENTERED AT 09:22:29 ON 24 APR 2009
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STRUCTURE FILE UPDATES:   22 APR 2009  HIGHEST RN 1138219-76-7
DICTIONARY FILE UPDATES:  22 APR 2009  HIGHEST RN 1138219-76-7

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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  conducting SmartSELECT searches.

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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> d que
L5              STR
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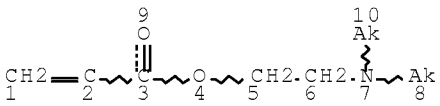


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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  10

STEREO ATTRIBUTES: NONE
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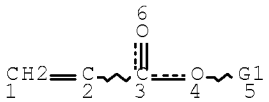


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DEFAULT ECLEVEL IS LIMITED

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NUMBER OF NODES IS   6

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L18        4249 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L17
L19             QUE  SPE=ON  ABB=ON  PLU=ON  FABRIC? OR TEXTIL? OR FIBER?
                 OR FIBRE? OR FIBROUS?
L20        1618 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L18(L)PREP/RL
L21         114 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L20 AND L19
L23      271672 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  SURFACTANTS+PFT,NT
                /CT
L24         245 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L20 AND L23
L25             QUE  SPE=ON  ABB=ON  PLU=ON  (BLOCK? OR GRAFT? OR STAR? O
                R BRANCH?)(5A)COPOLYMER?
L26          17 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L21 AND L25
L27          75 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L24 AND L25
L28           1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L27 AND  ZWITTERIO
                N?
L29             QUE  SPE=ON  ABB=ON  PLU=ON  ANTIWRINK? OR  CREASEPROOF?
                OR CREASE PROOF? OR   LAUNDER?  OR CLEANSING? OR (HAIR? O
                R SKIN)(3A)(TREAT? OR PROTECT?)
L30           2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L27 AND L29
L31           3 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L24 AND L29
L32          13 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L20 AND L29
L33          29 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L26 OR L28 OR
                (L30 OR L31 OR L32)
L35          13 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L33 AND (1840-2002
                )/PRY,AY,PY
L36          10 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L21 AND POLYMER?/S
                C,SX
L37          37 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L24 AND POLYMER?/S
                C,SX
L38          46 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L36 OR L37
L39          36 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L38 AND (1840-2002
                )/PRY,AY,PY
L41           1 SEA FILE=REGISTRY SPE=ON  ABB=ON  PLU=ON  3637-26-1/RN
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L43          96 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L41
L44         299 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L42
L45           0 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L43 OR L44) AND
                L39
L46          60 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L43 OR L44) AND
                L18
L47           5 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L46 AND L19
L48           2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L46 AND L29
L49           2 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  (L47 OR L48) AND
                (1840-2002)/PRY,AY,PY
L50          49 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L35 OR L39 OR L45
                OR L49


=> fil hcap
FILE 'HCAPLUS' ENTERED AT 09:22:35 ON 24 APR 2009
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FILE COVERS 1907 - 24 Apr 2009 VOL 150 ISS 18
FILE LAST UPDATED: 23 Apr 2009 (20090423/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d l50 1-49 ibib ed abs hitstr hitind

L50 ANSWER 1 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:430848 HCAPLUS Full-text
DOCUMENT NUMBER: 140:424122
TITLE: Controlled-structure copolymer comprising an amphoteric or zwitterionic part
INVENTOR(S): Destarac, Mathias
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004044023	A1	20040527	WO 2003-FR3255 <--	20031031
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2846973	A1	20040514	FR 2002-13950 <--	20021107
FR 2846973	B1	20041217		

FR 2859209	A1	20050304	FR 2003-10292	20030829
FR 2859209	B1	20071130		
AU 2003292304	A1	20040603	AU 2003-292304	20031031
			<--	
EP 1558658	A1	20050803	EP 2003-767870	20031031
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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JP 2006505686	T	20060216	JP 2005-506660	20031031
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US 20060217285	A1	20060928	US 2005-534196	20050506
			<--	
PRIORITY APPLN. INFO.:			FR 2002-13950 A	20021107
			<--	
			FR 2003-10292 A	20030829
			WO 2003-FR3255 W	20031031

ED Entered STN: 27 May 2004

AB The invention concerns a controlled structure polymer comprising at least two different parts: a first part A which is amphoteric or zwitterionic, including anionic or potentially anionic units, and cationic or potentially cationic units, or zwitterionic units, and another part B which is not amphoteric or zwitterionic. Said copolymer exhibits a high potential of adaptation, through variation of its composition, in order to improve the properties of compns. in which it is introduced. A typical copolymer was manufactured by radical polymerization of 65 g Bu acrylate in EtOH in the presence of O-ethyl-S-[1-(methoxycarbonyl)ethyl]xanthate at 70°, and radical polymerization of 173.4 g acrylic acid and 404.7 g 2-acryloyloxyethyltrimethylammonium Me sulfate in the presence of the resulting polymer in EtOH.

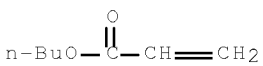
IT 691355-68-7P, Acrylic acid-2-acryloyloxyethyltrimethylammonium methyl sulfate-butyl acrylate block copolymer
(controlled-structure copolymer comprising an amphoteric or zwitterionic part)

RN 691355-68-7 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with butyl 2-propenoate and 2-propenoic acid, block (9CI) (CA INDEX NAME)

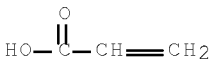
CM 1

CRN 141-32-2
CMF C7 H12 O2



CM 2

CRN 79-10-7
CMF C3 H4 O2

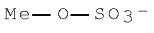


CM 3

CRN 13106-44-0
CMF C8 H16 N O2 . C H3 O4 S

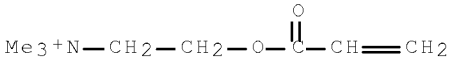
CM 4

CRN 21228-90-0
CMF C H3 O4 S



CM 5

CRN 20284-80-4
CMF C8 H16 N O2



IC ICM C08F293-00
ICS C11D001-88; A61K007-075; C11D003-37; A61K007-02; A61K007-06
CC 35-8 (Chemistry of Synthetic High Polymers)
ST block copolymer amphoteric zwitterionic; butyl acrylate acrylic acid acryloyloxyethyltrimethylammonium methosulfate block copolymer manuf
IT Polyelectrolytes
(amphoteric; controlled-structure copolymer comprising an amphoteric or zwitterionic part)
IT Hair preparations
(conditioners; controlled-structure copolymer comprising an amphoteric or zwitterionic part for hair conditioners)
IT Cosmetics
(conditioners; controlled-structure copolymer comprising an amphoteric or zwitterionic part for skin conditioners)
IT Detergents
(controlled-structure copolymer comprising an amphoteric or zwitterionic part for detergents)
IT Quaternary ammonium compounds, preparation
(polymers; controlled-structure copolymer comprising an amphoteric or zwitterionic part)
IT Zwitterions
(polymers; controlled-structure copolymer comprising an amphoteric

or zwitterionic part for hair conditioners)
IT Polymerization
(radical; of unsatd. monomers for manufacture of controlled-structure copolymer comprising an amphoteric or zwitterionic part)
IT 691355-68-7P, Acrylic acid-2-acryloyloxyethyltrimethylammonium methyl sulfate-butyl acrylate block copolymer
(controlled-structure copolymer comprising an amphoteric or zwitterionic part)
IT 9003-49-0P, Polybutyl acrylate
(copolymer precursor; controlled-structure copolymer comprising an amphoteric or zwitterionic part)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 2 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:390970 HCAPLUS Full-text
DOCUMENT NUMBER: 140:408665
TITLE: Antiwrinkling composition comprising a controlled-architecture copolymer for treatment of textile articles after laundering
INVENTOR(S): Harrison, Ian; Destarac, Mathias; Geffroy, Cedric
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
SOURCE: Fr. Demande, 36 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2846973	A1	20040514	FR 2002-13950 <--	20021107
FR 2846973	B1	20041217		
WO 2004044114	A1	20040527	WO 2003-FR3183 <--	20031027
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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EP 1558720	A1	20050803	EP 2003-778466 <--	20031027
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JP 2006505709	T	20060216	JP 2004-551082 <--	20031027
JP 4177332	B2	20081105		
WO 2004044023	A1	20040527	WO 2003-FR3255 <--	20031031

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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003292304	A1	20040603	AU 2003-292304 <--	20031031
EP 1558658	A1	20050803	EP 2003-767870 <--	20031031
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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CN 1735636	A	20060215	CN 2003-80108414 <--	20031031
JP 2006505686	T	20060216	JP 2005-506660 <--	20031031
US 20060217285	A1	20060928	US 2005-534196 <--	20050506
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US 7378033	B2	20080527		
PRIORITY APPLN. INFO.:			FR 2002-13950 A	20021107
			FR 2003-10292 A	20030829
			WO 2003-FR3183 W	20031027
			WO 2003-FR3255 W	20031031

ED Entered STN: 14 May 2004

AB Antiwrinkling agents for treatment of textile articles after laundering are based on aqueous or aqueous alc. compns. containing a cationic surfactant and a polymer having (A) ≥1 nonionic hydrophobic block and (B) ≥1 ionic or ionizable block [B/A = (0.01-0.1):1] that is compatible with the cationic surfactant at the pH of mixing and utilization. A typical block copolymer was manufactured by radical polymerization of Bu acrylate in the presence of O-ethyl-S-[1-(methoxycarbonyl)ethyl] xanthate, and radical polymerization of 2-dimethylaminoethyl acrylate in the presence of the resulting poly(Bu acrylate).

IT 281198-01-4P, Butyl acrylate-2-dimethylaminoethyl acrylate block copolymer 363619-87-8P 688811-07-6P
(antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)

RN 281198-01-4 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, block (9CI) (CA INDEX NAME)

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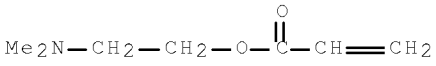
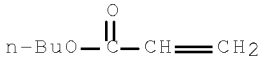
CRN 2439-35-2

CMF C7 H13 N O2



CM 2

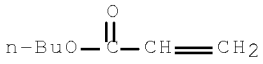
CRN 141-32-2
CMF C7 H12 O2



RN 363619-87-8 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 141-32-2
CMF C7 H12 O2

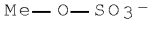


CM 2

CRN 13106-44-0
CMF C8 H16 N O2 . C H3 O4 S

CM 3

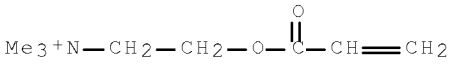
CRN 21228-90-0
CMF C H3 O4 S



CM 4

CRN 20284-80-4

CMF C8 H16 N O2



RN 688811-07-6 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with butyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

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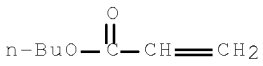
CRN 141-32-2
CMF C7 H12 O2



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CRN 79-10-7
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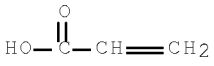

CM 3

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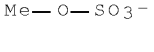
CMF C8 H16 N O2 . C H3 O4 S

CM 4

CRN 21228-90-0
CMF C H3 O4 S



CM 5

CRN 20284-80-4
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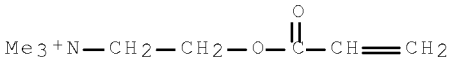


IC ICM C11D003-37
ICS C08F293-00; C11D001-38
CC 46-5 (Surface Active Agents and Detergents)
ST antiwrinkling agent cationic surfactant hydrophobic ionic combination block copolymer; textile laundering antiwrinkling agent; butyl acrylate dimethylaminoethyl acrylate block copolymer antiwrinkling agent
IT Creaseproofing
(agents; antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
IT Laundering
(antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
IT Surfactants
(cationic; antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
IT Quaternary ammonium compounds, uses
(dimethylditallow alkyl, chlorides; antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
IT Quaternary ammonium compounds, uses
(polymers; antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
IT 281198-01-4P, Butyl acrylate-2-dimethylaminoethyl acrylate block copolymer 363619-87-8P 688811-07-6P
(antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
IT 9003-49-0P, Polybutyl acrylate 33114-26-0P
(block polymer precursor; antiwrinkling compns. containing a polymers having hydrophobic blocks and ionic/ionizable blocks for treatment of textile articles after laundering)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 3 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:269902 HCAPLUS Full-text
DOCUMENT NUMBER: 140:287869
TITLE: Ion triggerable, cationic polymers, their manufacture and use in wipe items
INVENTOR(S): Bunyard, W. Clayton; Branham, Kelly D.; Lostocco, Michael R.; Calhoun, Glenn; Weston, Rod; Lang,

Frederick J.; Possell, Kevin
PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 36 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040063888	A1	20040401	US 2002-251656 <--	20020920
US 7141519	B2	20061128		
WO 2004026958	A1	20040401	WO 2003-US16512 <--	20030523
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003228262	A1	20040408	AU 2003-228262 <--	20030523
EP 1539880	A1	20050615	EP 2003-726961 <--	20030523
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014099	A	20050621	BR 2003-14099 <--	20030523
MX 2005002501	A	20050527	MX 2005-2501 <--	20050304
PRIORITY APPLN. INFO.:			US 2002-251656 A <--	20020920
			WO 2003-US16512 W	20030523

ED Entered STN: 02 Apr 2004

AB The title binder copolymers having ammonium groups are applied to fiber-containing fabrics and webs for personal care products, such as wet wipes. A cationic polymer binder was prepared from 39.6 g Adamquat MC-80 and 2267.7 g Me acrylate in acetone in the presence of Vazo 52.

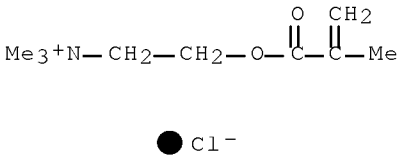
IT 36347-54-3P, Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate 113673-28-2P, Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate and methyl 2-propenoate
(ion triggerable cationic polymers for wet wipes)

RN 36347-54-3 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate (CA INDEX NAME)

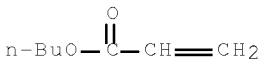
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



CM 2

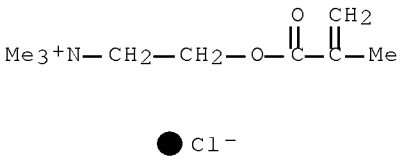
CRN 141-32-2
CMF C7 H12 O2



RN 113673-28-2 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate and methyl 2-propenoate (9CI) (CA INDEX NAME)

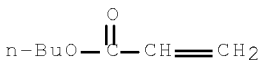
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



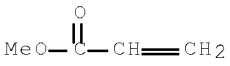
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 96-33-3
CMF C4 H6 O2



IC ICM C08F012-28
INCL 526310000
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 43, 62
IT Polyolefin fibers
(ethylene; ion triggerable cationic polymers for wet wipes)
IT Wood
(fibers; ion triggerable cationic polymers for wet wipes)
IT Binders
Cellulose pulp
Cosmetics
Nonwoven fabrics
Wipes
(ion triggerable cationic polymers for wet wipes)
IT Polyester fibers, uses
(ion triggerable cationic polymers for wet wipes)
IT 36347-54-3P, Ethanaminium,
N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer
with butyl 2-propenoate 113673-28-2P, Ethanaminium,
N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer
with butyl 2-propenoate and methyl 2-propenoate 116076-06-3P,
Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
chloride, polymer with methyl 2-propenoate 220557-78-8P,
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride.
polymer with methyl 2-propenoate 673496-25-8P 673496-26-9P
673496-28-1P
(ion triggerable cationic polymers for wet wipes)
REFERENCE COUNT: 199 THERE ARE 199 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L50 ANSWER 4 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:252158 HCAPLUS Full-text
DOCUMENT NUMBER: 140:292223
TITLE: Ion triggerable cationic polymers for wet wipes
INVENTOR(S): Branham, Kelly D.; Bunyard, W. Clayton; Lang,
Frederick J.; Possell, Kevin; Lostocco, Michael R.
PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 34 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040058606	A1	20040325	US 2002-251610	20020920

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US 7157389	B2	20070102			
WO 2004026354	A1	20040401	WO 2003-US28244		20030908
			<--		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2003266008	A1	20040408	AU 2003-266008		20030908
			<--		
AU 2003266008	B2	20080703			
EP 1539259	A1	20050615	EP 2003-797891		20030908
			<--		
EP 1539259	B1	20070725			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
BR 2003014054	A	20050705	BR 2003-14054		20030908
			<--		
CN 1681539	A	20051012	CN 2003-821232		20030908
			<--		
CN 100382853	C	20080423			
JP 2006500101	T	20060105	JP 2004-537751		20030908
			<--		
ZA 2005001927	A	20060531	ZA 2005-1927		20050101
			<--		
MX 2005002432	A	20050816	MX 2005-2432		20050303
			<--		
US 20070010155	A1	20070111	US 2006-520169		20060912
			<--		
US 7456117	B2	20081125			
PRIORITY APPLN. INFO.:			US 2002-251610	A	20020920
			<--		
			WO 2003-US28244	W	20030908

ED Entered STN: 26 Mar 2004

AB The present invention is directed to ion triggerable, water-dispersible cationic polymers. The present invention is also directed to a method of making ion triggerable, water-dispersible cationic polymers and their applicability as binder compns. The present invention is further directed to fiber-containing fabrics and webs comprising ion triggerable, water-dispersible binder compns. and their applicability in water-dispersible personal care products, such as wet wipes. A cationic polymer binder was prepd from Adamquat MC-80 and Me acrylate.

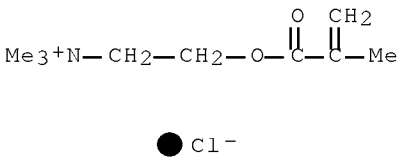
IT 36347-54-3P, Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate 113673-28-2P, Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate and methyl 2-propenoate
(ion triggerable cationic polymers for wet wipes)

RN 36347-54-3 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate (CA INDEX NAME)

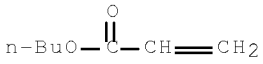
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



CM 2

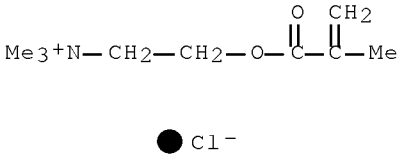
CRN 141-32-2
CMF C7 H12 O2



RN 113673-28-2 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate and methyl 2-propenoate (9CI) (CA INDEX NAME)

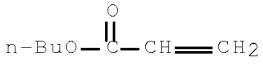
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



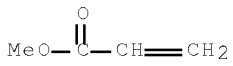
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 96-33-3
CMF C4 H6 O2



IC ICM B32B005-02
INCL 442327000
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 35, 38, 63
IT 36347-54-3P, Ethanaminium,
N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer
with butyl 2-propenoate 113673-28-2P, Ethanaminium,
N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer
with butyl 2-propenoate and methyl 2-propenoate 116076-06-3P,
Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
chloride, polymer with methyl 2-propenoate 220557-78-8P,
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride.
polymer with methyl 2-propenoate 673496-25-8P 673496-26-9P
673496-28-1P
(ion triggerable cationic polymers for wet wipes)
REFERENCE COUNT: 199 THERE ARE 199 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L50 ANSWER 5 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:250691 HCAPLUS Full-text
DOCUMENT NUMBER: 140:276247
TITLE: Water-dispersible personal care products containing ion-triggerable cationic polymers as binders
INVENTOR(S): Bunyard, W. Clayton; Branham, Kelly D.; Lostocco, Michael R.; Lang, Frederick J.; Possell, Kevin
PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 35 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040055704	A1	20040325	US 2002-251692 <--	20020920
US 7101456	B2	20060905		
WO 2004026352	A1	20040401	WO 2003-US16513 <--	20030523

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,

LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG

AU 2003233689	A1	20040408	AU 2003-233689 <--		20030523
MX 2005002397	A	20050527	MX 2005-2397 <--		20050302
PRIORITY APPLN. INFO.:			US 2002-251692	A	20020920
			<--		
			WO 2003-US16513	W	20030523

ED Entered STN: 26 Mar 2004

AB The present invention is directed to water-dispersible cationic polymers whose tensile strength is ion-concentration sensitive, or called ion-triggerable hereafter. The present invention is also directed to a method of making ion triggerable, water-dispersible cationic polymers and their applicability as binder compns. The present invention is further directed to fiber-containing fabrics and webs comprising ion triggerable, water-dispersible binder compns. and their applicability in water-dispersible personal care products, such as wet wipes. For example, a wet handsheet was made from air-laid nonwoven fabric as the basesheet, the copolymer of acryloyloxyethyl tri-Me ammonium chloride and Me acrylate as the binder, and sodium chloride as the ion trigger.

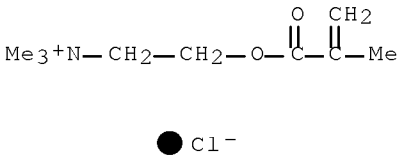
IT 36347-54-3P, Butyl acrylate-2-Methacryloyloxyethyl trimethyl ammonium chloride copolymer 113673-20-2P
(preparation of cationic acrylic polymers as binders for water-dispersible wet wipes)

RN 36347-54-3 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate (CA INDEX NAME)

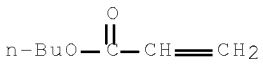
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



CM 2

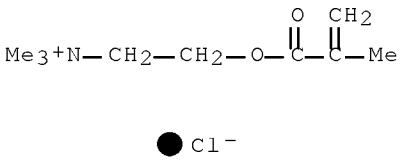
CRN 141-32-2
CMF C7 H12 O2



RN 113673-28-2 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate and methyl 2-propenoate (9CI) (CA INDEX NAME)

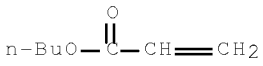
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



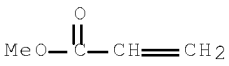
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 96-33-3
CMF C4 H6 O2



IC ICM B32B031-00
INCL 156305000
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 35, 46, 62
ST water dispersible personal care cationic polyacrylate binder; cationic polyacrylate binder nonwoven fabric sodium chloride trigger handsheet

IT Nonwoven fabrics
(cationic acrylic polymers as binders for nonwoven fabrics used in water-dispersible wet wipes)
IT Cosmetics
(cleansing, handsheets; cationic acrylic polymers as binders for water-dispersible wet handsheets)
IT Fibrous materials
(water-dispersible wet wipes containing fibrous materials bound by cationic acrylic polymers)
IT Medical goods
(wipes, baby wipes; water-dispersible wet wipes containing fibrous materials bound by cationic acrylic polymers)
IT 36347-54-3P, Butyl acrylate-2-Methacryloyloxyethyl trimethyl ammonium chloride copolymer 113673-28-2P 116076-06-3P 220557-78-8P, 2-Acryloyloxyethyl trimethyl ammonium chloride-methyl acrylate copolymer 673496-25-8P 673496-26-9P 673496-27-0P 673496-28-1P
(preparation of cationic acrylic polymers as binders for water-dispersible wet wipes)
REFERENCE COUNT: 200 THERE ARE 200 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 6 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:157447 HCAPLUS Full-text
DOCUMENT NUMBER: 140:201103
TITLE: Use of gradient copolymers as dispersing agent for the treatment of pigments and solids
INVENTOR(S): Goebelt, Bernd; Haubennestel, Karlheinz; Krappe, Udo; Della Valentina, Petra
PATENT ASSIGNEE(S): BYK-Chemie G.m.b.H., Germany
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10236133	A1	20040226	DE 2002-10236133 <--	20020807
TW 592794	B	20040621	TW 2003-92119040 <--	20030711
CA 2435516	A1	20040207	CA 2003-2435516 <--	20030718
EP 1416019	A1	20040506	EP 2003-17316 <--	20030731
EP 1416019	B1	20050518		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AT 295871	T	20050615	AT 2003-17316 <--	20030731
ES 2240896	T3	20051016	ES 2003-17316 <--	20030731
KR 2004014311	A	20040214	KR 2003-54423 <--	20030806
JP 2004066235	A	20040304	JP 2003-287916 <--	20030806
CN 1495204	A	20040512	CN 2003-158622	20030807

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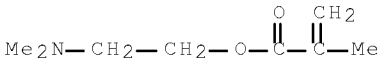
CN 1310975 C 20070418
US 20040143035 A1 20040722 US 2003-636319 20030807
<--
PRIORITY APPLN. INFO.: DE 2002-10236133 A 20020807
<--

ED Entered STN: 26 Feb 2004
AB Copolymers are manufactured by continuously living, controlled polymerization of ethylenically unsatd. compds. in the presence of nonpolymeric monofunctional initiators in such a way that the products exhibit a gradual hydrophilicity to hydrophobicity along the chains. These copolymers are post-treated to give dispersing agents for pigments in coatings and fillers in plastics,. A typical dispersant was manufactured by heating 3.3 mL benzenesulfonyl chloride, 103 g Bu methacrylate, 1 g 2,2'-bipyridine and 400 mg Cu powder in 25 mL methoxypropyl acetate (I) to 100°, adding 65 g N,N'-dimethylaminoethyl methacrylate at 0.8 mL/min, heating 5 min at 100° heating 168 g polymer 2 h at 100° with 52 g benzyl chloride in 150 g each I and ethylene glycol mono-Bu ether until the reaction was complete.
IT 24938-16-7P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-methyl methacrylate copolymer 26658-83-3P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer 143363-32-0P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate copolymer
(dispersant precursor; use of copolymers with hydrophilicity-hydrophobicity gradient along chains as dispersing agents for pigments and fillers)
RN 24938-16-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

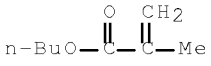
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

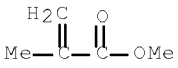
CRN 97-88-1
CMF C8 H14 O2



CM 3

CRN 80-62-6

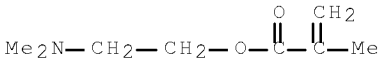
CMF C5 H8 O2



RN 26658-83-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate (CA INDEX NAME)

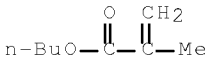
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

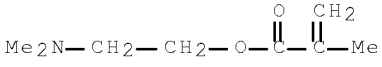
CRN 97-88-1
CMF C8 H14 O2



RN 143363-32-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and 2-ethylhexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

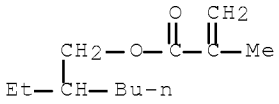
CRN 2867-47-2
CMF C8 H15 N O2



CM 2

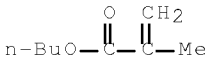
CRN 688-84-6

CMF C12 H22 O2



CM 3

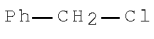
CRN 97-88-1
CMF C8 H14 O2



IT 146267-18-7P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer benzyl chloride salt 661478-15-5P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-methyl methacrylate copolymer benzyl chloride salt 661478-16-6P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate copolymer benzyl chloride salt
(dispersant; use of copolymers with hydrophilicity-hydrophobicity gradient along chains as dispersing agents for pigments and fillers)
RN 146267-18-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, compd. with (chloromethyl)benzene (9CI) (CA INDEX NAME)

CM 1

CRN 100-44-7
CMF C7 H7 Cl



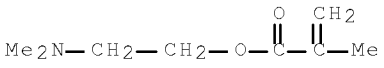
CM 2

CRN 26658-83-3
CMF (C8 H15 N O2 . C8 H14 O2)x
CCI PMS

CM 3

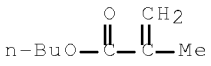
CRN 2867-47-2

CMF C8 H15 N O2



CM 4

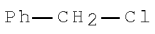
CRN 97-88-1
CMF C8 H14 O2



RN 661478-15-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, compd. with (chloromethyl)benzene (CA INDEX NAME)

CM 1

CRN 100-44-7
CMF C7 H7 Cl

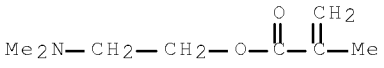


CM 2

CRN 24938-16-7
CMF (C8 H15 N O2 . C8 H14 O2 . C5 H8 O2)x
CCI PMS

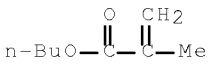
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



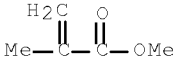
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

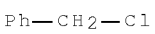
CRN 80-62-6
CMF C5 H8 O2



RN 661478-16-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and 2-ethylhexyl 2-methyl-2-propenoate, compd. with (chloromethyl)benzene (9CI) (CA INDEX NAME)

CM 1

CRN 100-44-7
CMF C7 H7 Cl

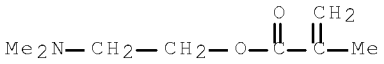


CM 2

CRN 143363-32-0
CMF (C12 H22 O2 . C8 H15 N O2 . C8 H14 O2)x
CCI PMS

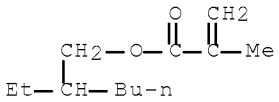
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



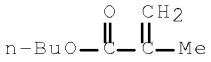
CM 4

CRN 688-84-6
CMF C12 H22 O2



CM 5

CRN 97-88-1
CMF C8 H14 O2



IC ICM B01F017-52
CC 42-6 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35, 37
IT Coating materials
Dispersing agents
Fillers
Pastes
Pigments, nonbiological
(use of copolymers with hydrophilicity-hydrophobicity gradient along chains as dispersing agents for pigments and fillers)
IT 24938-16-7P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-methyl methacrylate copolymer 25702-92-5P, Butyl methacrylate-2-hydroxyethyl methacrylate copolymer 25951-87-5P, Butyl methacrylate-glycidyl methacrylate copolymer 26650-03-3P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer 28549-52-2P, Butyl methacrylate-tert-butyl methacrylate copolymer 143363-32-0P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate copolymer 661478-14-4P, Butyl methacrylate-1-(2-methacryloyloxyethyl)-2-imidazolidinone methacrylate copolymer
(dispersant precursor; use of copolymers with hydrophilicity-hydrophobicity gradient along chains as dispersing agents for pigments and fillers)
IT 25702-92-5DP, Butyl methacrylate-2-hydroxyethyl methacrylate copolymer, esters with polyphosphoric acids 28549-52-2DP, Butyl methacrylate-tert-butyl methacrylate copolymer, hydrolyzed 146267-18-7P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer benzyl chloride salt 661478-15-5P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-methyl

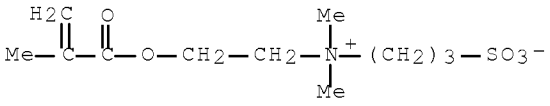
methacrylate copolymer benzyl chloride salt 661478-16-6P, Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-2-ethylhexyl methacrylate copolymer benzyl chloride salt 663152-70-3P, Butyl methacrylate-glycidyl methacrylate copolymer p-nitrobenzoate
(dispersant; use of copolymers with hydrophilicity-hydrophobicity gradient along chains as dispersing agents for pigments and fillers)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 7 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:734373 HCAPLUS Full-text
DOCUMENT NUMBER: 140:375580
TITLE: Photopolymerized and photografted porous polymer monoliths for fabrication of microfluidic analytical systems
AUTHOR(S): Svec, Frantisek; Frechet, Jean M. J.; Hilder, Emily F.; Peterson, Dominic S.; Rohr, Thomas
CORPORATE SOURCE: University of California, Berkeley, CA, 94720-1460, USA
SOURCE: Micro Total Analysis Systems 2002, Proceedings of the μTAS 2002 Symposium, 6th, Nara, Japan, Nov. 3-7, 2002 (2002), Volume 1, 332-334. Editor(s): Baba, Yoshinobu; Shoji, Shuichi; Van den Berg, Albert. Kluwer Academic Publishers: Dordrecht, Neth.
CODEN: 69EMKZ; ISBN: 1-4020-1011-7
DOCUMENT TYPE: Conference
LANGUAGE: English
ED Entered STN: 19 Sep 2003
AB Two building blocks required for the construction of complex microfluidic systems, an enzymic reactor and a separation unit, were designed, prepared, and evaluated. These elements consisting of porous polymer monoliths were prepared in situ via a UV initiated polymerization of a monolithic material followed by photoinitiated grafting of polymer chains involving desired functionalities. The function of the monolithic reactor was demonstrated with digestion of a variety of proteins using immobilized trypsin. Extremely efficient electrochromatog. separation of proteins was achieved at elevated temperature in isocratic mode.
IT 684233-29-2, Butyl methacrylate-N,N-dimethyl-N-methacryloyloxyethyl-N-(3-sulfopropyl)ammonium betaine-ethylene dimethacrylate graft copolymer
(photopolymd. and photografted porous unsatd. polymer monoliths for lining the channels of components of microfluidic anal. systems)
RN 684233-29-2 HCAPLUS
CN 1-Propanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-3-sulfo-, inner salt, polymer with butyl 2-methyl-2-propenoate and 1,2-ethanediyl bis(2-methyl-2-propenoate), graft (9CI) (CA INDEX NAME)

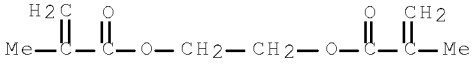
CM 1

CRN 3637-26-1
CMF C11 H21 N O5 S



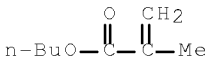
CM 2

CRN 97-90-5
CMF C10 H14 O4



CM 3

CRN 97-88-1
CMF C8 H14 O2



CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 34, 80
IT 684233-29-2, Butyl methacrylate-N,N-dimethyl-N-methacryloyloxyethyl-N-(3-sulfopropyl)ammonium betaine-ethylene dimethacrylate graft copolymer
(photopolymd. and photografted porous unsatd. polymer monoliths for lining the channels of components of microfluidic anal. systems)
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 8 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:591047 HCAPLUS Full-text
DOCUMENT NUMBER: 139:150723
TITLE: Film-forming antimicrobial compositions for tissue and skin antisepsis used in topical pharmaceutical products and cosmetics
INVENTOR(S): Wang, Danli; Scholz, Matthew T.; Zhu, Dong-wei; Lu, Triet M.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003061721	A1	20030731	WO 2002-US38951 <--	20021205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20030194415	A1	20031016	US 2002-52158 <--	20020116
US 6838078	B2	20050104		
CA 2473841	A1	20030731	CA 2002-2473841 <--	20021205
EP 1465676	A1	20041013	EP 2002-792331 <--	20021205
EP 1465676	B1	20070815		
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BR 2002015518	A	20041221	BR 2002-15518 <--	20021205
JP 2005520812	T	20050714	JP 2003-561661 <--	20021205
AT 369881	T	20070915	AT 2002-792331 <--	20021205
EP 1849487	A2	20071031	EP 2007-113625 <--	20021205
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, SI, SK, TR				
ES 2290351	T3	20080216	ES 2002-792331 <--	20021205
AU 2002357790	B2	20080306	AU 2002-357790 <--	20021205
MX 2004006839	A	20041206	MX 2004-6839 <--	20040714
NO 2004003297	A	20041007	NO 2004-3297 <--	20040806
US 20050025794	A1	20050203	US 2004-922262 <--	20040819
US 7323163	B2	20080129		

PRIORITY APPLN. INFO.:	US 2002-52158 <--	A	20020116
	EP 2002-792331 <--	A3	20021205
	WO 2002-US38951 <--	W	20021205

ED Entered STN: 01 Aug 2003

AB The title compns. comprise: (A) a water-soluble or water-dispersible vinyl polymer having amine group on side-chains, and a copolymd. hydrophobic monomer; (B) water, (C) a surfactant, and (D) an active agent selected from antimicrobial agent, a pharmaceutical or a cosmetic agent. Thus, polymerizing 2-ethylhexyl acrylate with Ageflex FA 1Q80M (acryloyloxyethyltrimethylammonium

chloride) and AM 90G (polyethylene glycol Me ether acrylate) in ratio of 75/20/5 gave an A, 5% of which was mixed with 7.5% Povidone-iodine USP (antimicrobial agent), 5% Polystep B 22 (surfactant), 3.3% ethano, 6% lactic acid and balance water to give a title composition (pH 3.5-4) showing good human skin antimicrobial activity result.

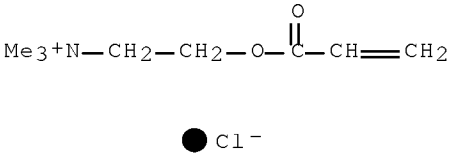
IT 568592-95-0P 569676-28-4P
(prepns. of water-soluble polymer in film-forming antimicrobial compns. for tissue and skin antisepsis)

RN 568592-95-0 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, dodecyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

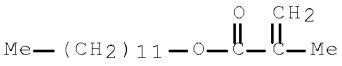
CM 1

CRN 44992-01-0
CMF C8 H16 N O2 . Cl



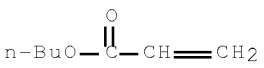
CM 2

CRN 142-90-5
CMF C16 H30 O2



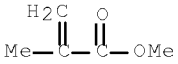
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

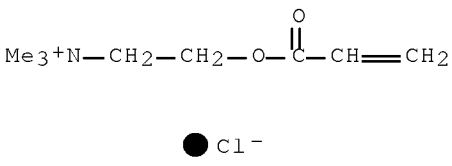
CRN 80-62-6
CMF C5 H8 O2



RN 569676-28-4 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with dodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

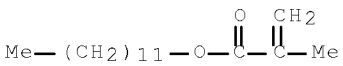
CM 1

CRN 44992-01-0
CMF C8 H16 N O2 . Cl



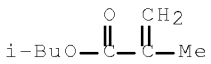
CM 2

CRN 142-90-5
CMF C16 H30 O2



CM 3

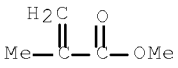
CRN 97-86-9
CMF C8 H14 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



IC ICM A61L026-00
ICS A61K009-70; A01N033-12
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 10, 62, 63
IT Surfactants
(amphoteric; in film-forming antimicrobial compns. for tissue and skin antisepsis used in topical pharmaceutical products and cosmetics)
IT Surfactants
(anionic; in film-forming antimicrobial compns. for tissue and skin antisepsis used in topical pharmaceutical products and cosmetics)
IT Cosmetics
(cleansing; film-forming antimicrobial compns. for tissue and skin antisepsis used in topical pharmaceutical products and cosmetics)
IT Surfactants
(nonionic; in film-forming antimicrobial compns. for tissue and skin antisepsis used in topical pharmaceutical products and cosmetics)
IT 568592-93-8P, Ageflex FA 1Q80MC-AM 90G-2-ethylhexyl acrylate graft copolymer 568592-95-0P 569676-28-4P
(prepns. of water-soluble polymer in film-forming antimicrobial compns. for tissue and skin antisepsis)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 9 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:508534 HCAPLUS Full-text
DOCUMENT NUMBER: 139:69673
TITLE: Manufacture of nitrogen-containing copolymers with narrow particle size distribution by suspension polymerization
INVENTOR(S): Konami, Yukichi; Nakagawa, Takeshi
PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003183310	A	20030703	JP 2001-387282 <--	20011220
PRIORITY APPLN. INFO.:			JP 2001-387282 <--	20011220

ED Entered STN: 03 Jul 2003

AB The copolymers are manufactured by suspension polymerization of water-soluble N-containing monomers and ethylenically unsatd. monomers in the presence of polymerization catalysts satisfying decomposition amount of the catalysts to 100 g monomers per 1 h (X) ≥0.5 mmol derived from expressions X = (W0 - W1)/Mw, W1 = W0 exp(-kt), and ln k = ln A - Ea/RT [W0= initial addition weight (g) of polymerization catalysts to 100 g monomers; W1 = residual catalyst weight to 100 g monomers after 1-h polymerization; k = decomposition rate constant (s-1); t = time (3600 s); A = frequency factor; Ea = activation energy (cal/mol); R = gas constant (1.987 cal/mol-K); T = absolute temperature (K); Mw = mol. weight of catalysts]. Thus, polymerization of 300 parts dimethylaminoethyl methacrylate and 200 parts Me methacrylate in the presence of 5 parts V 65 [2,2'-azobis(2,4-dimethylvaleronitrile), X 0.83 mmol] and 5 parts 10% acrylamide- methacryloyloxyethyltrimethylammonium chloride copolymer dispersing agent gave 96% copolymer with N-containing monomer content 59%.

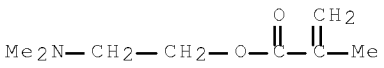
IT 26658-83-3P, Butyl methacrylate-dimethylaminoethyl methacrylate copolymer
(manufacture of N-containing copolymers with narrow particle size distribution by suspension polymerization)

RN 26658-83-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate (CA INDEX NAME)

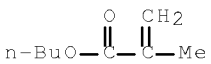
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

CRN 97-88-1
CMF C8 H14 O2



IC ICM C08F002-18
ICS C08F220-34; C08F220-60

CC 35-3 (Chemistry of Synthetic High Polymers)

IT Dispersing agents
Particle size distribution
(manufacture of N-containing copolymers with narrow particle size distribution by suspension polymerization)

IT 26222-42-4P, Dimethylaminoethyl methacrylate-methyl methacrylate copolymer 26658-83-3P, Butyl methacrylate-dimethylaminoethyl methacrylate copolymer 137683-21-7P, Dimethylaminopropylacrylamide-methyl methacrylate copolymer
(manufacture of N-containing copolymers with narrow particle size

distribution by suspension polymerization)

L50 ANSWER 10 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:434622 HCAPLUS Full-text
DOCUMENT NUMBER: 139:8202
TITLE: Pigment compositions with modified ATRP copolymer dispersants
INVENTOR(S): Auschra, Clemens; Eckstein, Ernst; Zink, Marie-Odile; Muehlebach, Andreas
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003046029	A1	20030605	WO 2002-EP13064 <--	20021121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2465291	A1	20030605	CA 2002-2465291 <--	20021121
AU 2002352086	A1	20030610	AU 2002-352086 <--	20021121
BR 2002014616	A	20040914	BR 2002-14616 <--	20021121
EP 1465935	A1	20041013	EP 2002-787760 <--	20021121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005510595	T	20050421	JP 2003-547476 <--	20021121
CN 1639216	A	20050713	CN 2002-823780 <--	20021121
CN 100408606	C	20080806		
US 20050004317	A1	20050106	US 2004-495519 <--	20040514
MX 2004004693	A	20040819	MX 2004-4693 <--	20040518
US 20060160950	A1	20060720	US 2006-387020 <--	20060321
PRIORITY APPLN. INFO.:			EP 2001-811158 A <--	20011129
			WO 2002-EP13064 W <--	20021121
			US 2004-495519 A1	20040514

ED Entered STN: 06 Jun 2003

AB The present invention relates to a composition containing modified block copolymer dispersants and dispersible inorg. or organic pigments. The block copolymers are prepared by atom transfer radical polymerization (ATRP) and modified with a salt forming group. The pigment composition is useful for preparing coating compns., prints, images, inks or lacquers and other disperse systems. A Bu acrylate-2-dimethylaminoethyl acrylate block copolymer dispersant was prepared by ATRP.

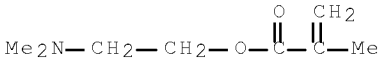
IT 143410-36-0P, Butyl acrylate-2-(dimethylamino)ethyl methacrylate graft copolymer
(comb; pigment compns. with modified ATRP copolymer dispersants)

RN 143410-36-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, graft (9CI) (CA INDEX NAME)

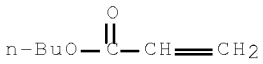
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



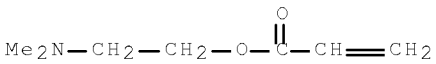
IT 281198-01-4P, Butyl acrylate-2-Dimethylaminoethyl acrylate block copolymer
(pigment compns. with modified ATRP copolymer dispersants)

RN 281198-01-4 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, block (9CI) (CA INDEX NAME)

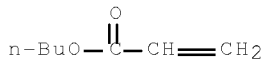
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



IC ICM C08F293-00
ICS C08L053-00; C08F002-38; C08F004-40; C09D011-00; C08K005-00; C09D153-00
CC 42-5 (Coatings, Inks, and Related Products)
IT Reinforced plastics
(glass fiber-reinforced; pigment compns. with modified ATRP copolymer dispersants)
IT 143410-36-0P, Butyl acrylate-2-(dimethylamino)ethyl methacrylate graft copolymer
(comb; pigment compns. with modified ATRP copolymer dispersants)
IT 9003-49-0DP, Poly-n-butylacrylate, methacrylate-terminated
9003-49-0P, Poly-n-butylacrylate 281198-01-4P, Butyl acrylate-2-Dimethylaminoethyl acrylate block copolymer
(pigment compns. with modified ATRP copolymer dispersants)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 11 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:94210 HCAPLUS Full-text
DOCUMENT NUMBER: 138:138885
TITLE: Silicone-containing polymer water repellents
INVENTOR(S): Terabayashi, Takeshi; Shimizu, Yoshio; Komatsu, Masanori; Nakamura, Isae
PATENT ASSIGNEE(S): Lion Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003034784	A	20030207	JP 2001-255307 <--	20010724
PRIORITY APPLN. INFO.:			JP 2001-255307 <--	20010724

ED Entered STN: 07 Feb 2003
AB The water repellents, showing easy removability when washed with detergents, are prepared from (A) 5-60% silicone macromers H2C:CR1CO2R2SiMeh[(OSiMe2)jOSiMe2R3]3-h [R1 = H, Me; R2 = (ether-containing) C1-6 divalent aliphatic group; R3 = C1-30 aliphatic, aromatic, OH group; h = 0, 1, 2; j = 0-500], (B) vinyl monomers containing tertiary amino groups or quaternary ammonium groups, and (C) carboxyl-containing vinyl monomers satisfying mol ratios B/(B + C) 1-40 mol%. Thus, an EtOH solution containing 10% graft copolymer prepared from Silaplane FM 0711 (silicone macromer) 20,

dimethylaminoethyl methacrylate 10, methacrylic acid 40, and tert-Bu methacrylate 30% was sprayed on a cotton fabric and dried to give a test piece showing high water repellency and the same surface appearance and texture as before the spraying.

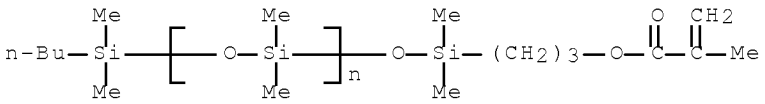
IT 494197-85-2P, Dimethylaminoethyl methacrylate-methacrylic acid-Silaplane FM 0711-tert-butyl methacrylate graft copolymer
(silicone-containing polymer water repellents)

RN 494197-85-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with α-(butyldimethylsilyl)-ω-[[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]oxy]poly[oxy(dimethylsilylene)], 2-(dimethylamino)ethyl 2-methyl-2-propenoate and 1,1-dimethylethyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

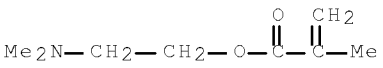
CM 1

CRN 149925-73-5
CMF (C2 H6 O Si)n C15 H32 O3 Si2
CCI PMS



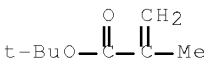
CM 2

CRN 2867-47-2
CMF C8 H15 N O2



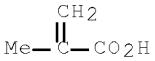
CM 3

CRN 585-07-9
CMF C8 H14 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2

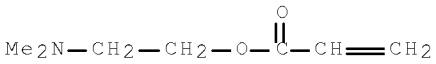


IC ICM C09K003-18
ICS C08F290-06; C09D004-00; C09D183-07; C23C022-00; C23C026-00; D06M015-263; D06M015-267; D06M015-643
CC 42-7 (Coatings, Inks, and Related Products)
IT 409323-53-1P, Dimethylaminoethyl methacrylate-methacrylic acid-Silaplane FM 0711 graft copolymer
494197-85-2P, Dimethylaminoethyl methacrylate-methacrylic acid-Silaplane FM 0711-tert-butyl methacrylate graft copolymer 494197-86-3P, Dimethylaminoethyl methacrylate-lauryl methacrylate-methacrylic acid-Silaplane FM 0711 graft copolymer
(silicone-containing polymer water repellents)

L50 ANSWER 12 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:759857 HCAPLUS Full-text
DOCUMENT NUMBER: 138:91441
TITLE: Design of new pigment dispersants by controlled radical polymerization
AUTHOR(S): Auschra, Clemens; Eckstein, Ernst; Muhlebach, Andreas; Zink, Marie-Odile; Rime, Francois
CORPORATE SOURCE: Ciba Specialty Chemicals, Segment Coating Effects, Basel, CH-4002, Switz.
SOURCE: Progress in Organic Coatings (2002), 45(2-3), 83-93
CODEN: POGCAT; ISSN: 0300-9440
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 07 Oct 2002
AB Polymeric pigment dispersants are essential for the formulation of high solids and waterborne coatings. New technologies for controlled polymerization play an important role for the development of improved pigment dispersants. In the last years, big progress has been made especially on nitroxide-mediated controlled free radical polymerization, as well as on atom transfer radical polymerization (ATRP). Both techniques overcome limitations of classical polymerization methods and provide an efficient route to functional copolymers with exact control of mol. weight distribution and mol. architecture. New developed nitroxide polymerization regulators as well as ATRP were used for the synthesis of acrylic block copolymers, which are a promising class of dispersants, especially for difficult to disperse organic pigaments. On the example of selected pigments, it was investigated how structural parameters like chemical composition, block length and mol. weight influence the dispersant performance. Special attention will be given to the rheol. behavior of pigment concs.
IT 281198-01-4P, Butyl acrylate-dimethylaminoethyl acrylate block copolymer
(design of new pigment dispersants by controlled radical polymerization)
RN 281198-01-4 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, block (9CI) (CA INDEX NAME)

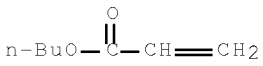
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



CC 42-6 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35
IT Dispersing agents
Molecular weight
Molecular weight distribution
Pigments, nonbiological
(design of new pigment dispersants by controlled radical polymerization)
IT 281198-01-4P, Butyl acrylate-dimethylaminoethyl acrylate block copolymer
(design of new pigment dispersants by controlled radical polymerization)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 13 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:754440 HCAPLUS Full-text
DOCUMENT NUMBER: 137:279621
TITLE: Water-dispersible, cationic polymers, a method of making same and items using same
INVENTOR(S): Branham, Kelly D.; Chang, Yihua; Lang, Frederick J.; McBride, Erin; Bunyard, Clay
PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA
SOURCE: PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002077048	A2	20021003	WO 2002-US4943 <--	20020219
WO 2002077048	A3	20030424		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20030032352	A1	20030213	US 2001-815261 <--	20010322
AU 2002242199	A1	20021008	AU 2002-242199 <--	20020219
AU 2002242199	B2	20070322		
EP 1379566	A2	20040114	EP 2002-707820 <--	20020219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004532910	T	20041028	JP 2002-576505 <--	20020219
CN 1608086	A	20050420	CN 2002-809832 <--	20020219
CN 100390212	C	20080528		
BR 2002008316	A	20060523	BR 2002-8316 <--	20020219
ZA 2003007029	A	20061129	ZA 2003-7029 <--	20030101
US 20040030080	A1	20040212	US 2003-607412 <--	20030626
MX 2003008244	A	20040129	MX 2003-8244 <--	20030911
KR 849259	B1	20080729	KR 2003-712185 <--	20030919
PRIORITY APPLN. INFO.:			US 2001-815261 A <--	20010322
			WO 2002-US4943 W <--	20020219

ED Entered STN: 04 Oct 2002

AB The present invention is directed to ion-sensitive water-dispersible, triggerable cationic polymers containing ≥1 hydrophobic monomer that are insol. in a wetting composition containing an insolubilizing agent such as a divalent metal salt capable of forming complex anions in solution at >0.5%, but are soluble when diluted with water containing other ions such as divalent salt solns. in hard water with ≤200 ppm Ca2+ and Mg2+. The present invention is also directed to a method of making triggerable, water-dispersible cationic polymers and their applicability as binder compns. The present invention is further directed to nonwoven fabrics and webs comprising triggerable, water-dispersible binder compns. and their applicability in water-dispersible personal care products, such as wet wipes. A typical polymer was manufactured by free-radical polymerization of acrylamide 39.1, Bu acrylate 32.0, 2-ethylhexyl acrylate 18.4, and 2-methacryloyloxyethyltrimethylammonium chloride 27.6 g in MeOH.

IT 36347-54-3P, Butyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
464174-65-0P, Acrylamide-butyl acrylate-2-ethylhexyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
464174-66-1P, Butyl acrylate-2-ethylhexyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
464916-47-0P, Acrylamide-acrylic acid-butyl

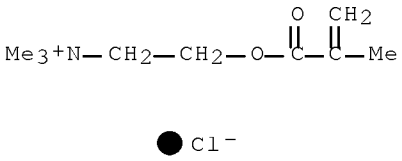
acrylate-2-ethylhexyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
(water-dispersible, cationic polymers for ion-sensitive, triggerable binders for wet wipes)

RN 36347-54-3 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate (CA INDEX NAME)

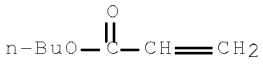
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



CM 2

CRN 141-32-2
CMF C7 H12 O2

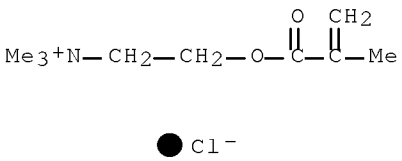


RN 464174-65-0 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

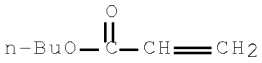
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



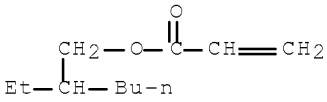
CM 2

CRN 141-32-2
CMF C7 H12 O2



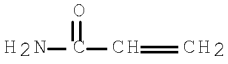
CM 3

CRN 103-11-7
CMF C11 H20 O2



CM 4

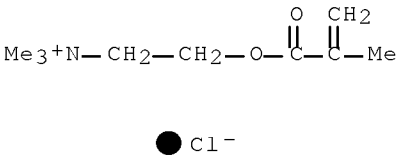
CRN 79-06-1
CMF C3 H5 N O



RN 464174-66-1 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate and 2-ethylhexyl 2-propenoate (9CI) (CA INDEX NAME)

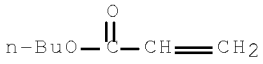
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



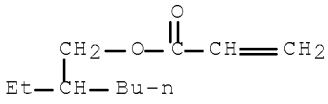
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

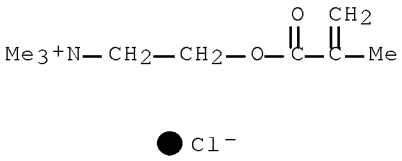
CRN 103-11-7
CMF C11 H20 O2



RN 464916-47-0 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-ethylhexyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

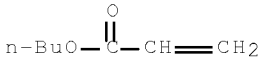
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



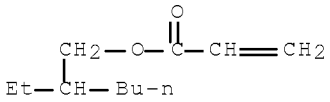
CM 2

CRN 141-32-2
CMF C7 H12 O2



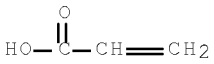
CM 3

CRN 103-11-7
CMF C11 H20 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



IC ICM C08F220-34
ICS D21H019-20; B05D007-24; D21H017-45; D04H001-64; C11D017-04
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 43, 46, 62
IT 36347-54-3P, Butyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
464174-65-0P, Acrylamide-butyl acrylate-2-ethylhexyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
464174-66-1P, Butyl acrylate-2-ethylhexyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
464916-47-0P, Acrylamide-acrylic acid-butyl acrylate-2-ethylhexyl acrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer
(water-dispersible, cationic polymers for ion-sensitive, triggerable binders for wet wipes)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 14 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:171963 HCAPLUS Full-text
DOCUMENT NUMBER: 136:202196
TITLE: Composition based on nanoparticles or nanolatex of polymers for treating fabrics during laundering
INVENTOR(S): Aubay, Eric; Labeau, Marie-pierre; Harrison, Ian
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018451	A2	20020307	WO 2001-FR2649 <--	20010822
WO 2002018451	A3	20030918		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2813312	A1	20020301	FR 2000-10945 <--	20000825
FR 2813312	B1	20060714		
FR 2813313	A1	20020301	FR 2001-7590 <--	20010611
FR 2813313	B1	20070615		
US 20020065208	A1	20020530	US 2001-901679 <--	20010711
US 7071156	B2	20060704		
CA 2420351	A1	20020307	CA 2001-2420351 <--	20010822
AU 2001084151	A	20020313	AU 2001-84151 <--	20010822
BR 2001013381	A	20030610	BR 2001-13381 <--	20010822
EP 1366083	A2	20031203	EP 2001-963116 <--	20010822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004512431	T	20040422	JP 2002-523965 <--	20010822
US 20040038851	A1	20040226	US 2003-362455 <--	20030730
US 20060211594	A1	20060921	US 2006-436546 <--	20060519

PRIORITY APPLN. INFO.:		
FR 2000-10945 <--	A	20000825
FR 2001-7590 <--	A	20010611
US 2001-901679 <--	A1	20010711
WO 2001-FR2649 <--	W	20010822

ED Entered STN: 08 Mar 2002

AB The invention concerns the use, in a composition for treating fabrics, especially cotton fabrics, in aqueous or wet medium, of nanoparticles of ≥1 polymer or ≥1 nanoparticular latex ≥1 polymer insol. in conditions of use in aqueous or wet medium of said composition, as creaseproofing and/or ironing-assist agent. Said composition can be a formulation of solid or liquid detergent, a liquid rinsing and/or a softening formulation, a drying additive contacted with the wet fabric in a dryer, an aqueous ironing formulation, a

prespotter deposited on the dry fabrics prior to a washing operation. The polymer comprises units of hydrophobic nonionic monomers or monomers nonionizable at the use pH, optionally, units of ≥1 crosslinking monomer and, optionally, ≥1 unit of hydrophilic monomers selected from cationic monomers or monomers cationizable at the use pH, monomers that are amphoteric at the use pH, anionic monomers or monomers anionizable at the use pH, nonionic monomers or monomers nonionizable at use pH.

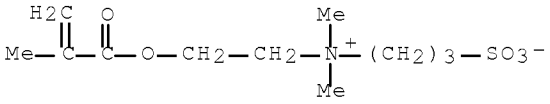
IT 401809-72-1, Butyl acrylate-2-hydroxyethyl methacrylate-methacrylic acid-methyl methacrylate-SPE copolymer
(composition based on nanoparticles or nanolatex of polymers for treating fabrics during or prior to laundering)

RN 401809-72-1 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-3-sulfo-, inner salt, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

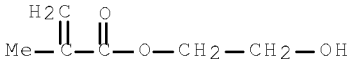
CM 1

CRN 3637-26-1
CMF C11 H21 N O5 S



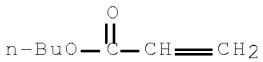
CM 2

CRN 868-77-9
CMF C6 H10 O3



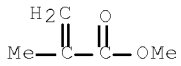
CM 3

CRN 141-32-2
CMF C7 H12 O2



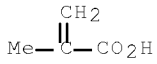
CM 4

CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4
CMF C4 H6 O2



IC C08F
CC 46-5 (Surface Active Agents and Detergents)
ST creaseproofing polymer nanoparticle laundry; ironing assistant polymer nanoparticle laundry
IT Creaseproofing
(agents; composition based on nanoparticles or nanolatex of polymers for treating fabrics during or prior to laundering)
IT Nanoparticles
(composition based on nanoparticles or nanolatex of polymers for treating fabrics during or prior to laundering)
IT Detergents
(laundry; composition based on nanoparticles or nanolatex of polymers for treating fabrics during or prior to laundering)
IT 401809-72-1, Butyl acrylate-2-hydroxyethyl methacrylate-methacrylic acid-methyl methacrylate-SPE copolymer
(composition based on nanoparticles or nanolatex of polymers for treating fabrics during or prior to laundering)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 15 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:785877 HCAPLUS Full-text
DOCUMENT NUMBER: 135:335210
TITLE: Blood filter material containing graft copolymers for leukocyte removal
INVENTOR(S): Sasaki, Hiroaki; Hayashi, Shizue; Miura, Morikazu
PATENT ASSIGNEE(S): Asahi Medical Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001300221	A	20011030	JP 2000-127610 <--	20000427
PRIORITY APPLN. INFO.:			JP 2000-127610 <--	20000427

ED Entered STN: 30 Oct 2001

AB The invention relates to a blood filter material for efficient removal of leukocyte, wherein the material contains a graft copolymer consisting of a main chain containing nonionic hydrophilic monomer and basic N-containing monomer, and graft chains containing hydrophobic monomer. A graft copolymer was prepared from Me methacrylate, 2-isocyanatoethyloxy methacrylate, 2-hydroxyethyl methacrylate, and dimethylaminoethyl methacrylate. The graft copolymer was coated on a polyethylene terephthalate fiber to obtain a blood filter material.

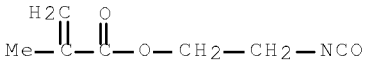
IT 370598-77-9P 370598-78-0P
(blood filter material containing graft copolymers for leukocyte removal)

RN 370598-77-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and 2-isocyanatoethyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

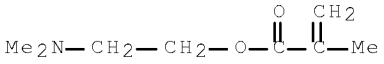
CM 1

CRN 30674-80-7
CMF C7 H9 N O3



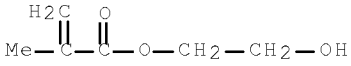
CM 2

CRN 2867-47-2
CMF C8 H15 N O2



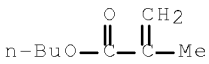
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

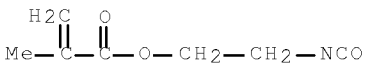
CRN 97-88-1
CMF C8 H14 O2



RN 370598-78-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate and α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

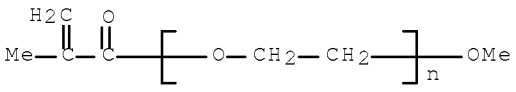
CM 1

CRN 30674-80-7
CMF C7 H9 N O3



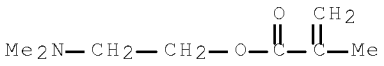
CM 2

CRN 26915-72-0
CMF (C2 H4 O)n C5 H8 O2
CCI PMS



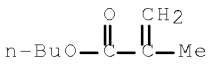
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 97-88-1
CMF C8 H14 O2



IC ICM B01D039-14
ICS A61M001-22; A61M001-36; B01D015-08; B01J020-26; C08F291-00
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 38
ST methacrylate graft copolymer blood filter leukocyte
IT Polyester fibers, biological studies
(blood filter material containing fibers coated with graft copolymers for leukocyte removal)
IT Blood
Leukocyte
(blood filter material containing graft copolymers for leukocyte removal)
IT Filters
(fiber; blood filter material containing graft copolymers for leukocyte removal)
IT Polymers, biological studies
(graft; blood filter material containing graft copolymers for leukocyte removal)
IT 370598-76-8P 370598-77-9P 370598-78-0P
370598-79-1P
(blood filter material containing graft copolymers for leukocyte removal)

L50 ANSWER 16 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:565117 HCAPLUS Full-text
DOCUMENT NUMBER: 135:137859
TITLE: Salt-free aqueous dispersions of water-soluble (co)polymers based on cationic monomers, method for making same and uses thereof
INVENTOR(S): Riondel, Alain; Tembou, N'zudie Denis; Vanhoye, Didier
PATENT ASSIGNEE(S): ATOFINA, Fr.; Tembou N'zudie, Denis
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2001055225	A2	20010802	WO 2001-FR183	20010119
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WO 2001055225	A3	20020404		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2804122	A1	20010727	FR 2000-833	20000124
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FR 2804122	B1	20020222		
AU 2001035562	A	20010807	AU 2001-35562	20010119
			<--	
EP 1252207	A2	20021030	EP 2001-907647	20010119
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003523462	T	20030805	JP 2001-561072	20010119
			<--	
US 20030153675	A1	20030814	US 2002-181821	20021120
			<--	
PRIORITY APPLN. INFO.:			FR 2000-833 A	20000124
			<--	
			WO 2001-FR183 W	20010119
			<--	

ED Entered STN: 03 Aug 2001

AB Salt-free aqueous dispersions of water-soluble polymers containing polymeric dispersants are manufactured by radical-dispersion polymerization of monomer mixts. containing 0.5-99.5 mol (based on 100 mol monomer) CH2:CR1CO2CH(CH2NR22)2 (R1 = H or Me, R2 = Me, Et, Pr, or Bu) which is quaternized on ≥1 N so that the 4th group on the N is alkyl or PhCH2 and the anion is halide or MeOSO3-. A typical dispersion was manufactured by radical-dispersion polymerization of 20 parts 75% aqueous CH2:CHCO2CH(CH2N+Me2CH2Ph)2 2Cl- solution, 67.5 parts 50% aqueous acrylamide solution, 28.12 parts 80% aqueous acryloyloxyethyltrimethylammonium chloride (I) solution, 3.75 parts Bu acrylate, and 0.0055 parts ethylene glycol dimethacrylate in the presence of a 76.25:3.84:0.67:19.23 I-methacrylic acid-Sipomer SEM-styrene copolymer dispersant.

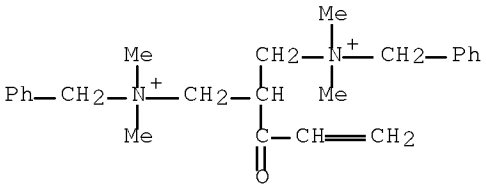
IT 352201-76-4P
(salt-free dispersions of water-soluble (co)polymers based on cationic monomers and containing quaternized bis(dialkylaminomethyl)methyl (meth)acrylate)

RN 352201-76-4 HCAPLUS

CN 1,3-Propanediaminium, N,N,N',N'-tetramethyl-2-(1-oxo-2-propenyl)-N,N'-bis(phenylmethyl)-, dichloride, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), 2-propenamide and N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

CM 1

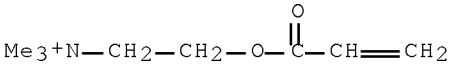
CRN 352201-74-2
CMF C24 H34 N2 O . 2 Cl



● 2 Cl⁻

CM 2

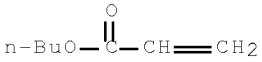
CRN 44992-01-0
CMF C8 H16 N O2 . Cl



● Cl⁻

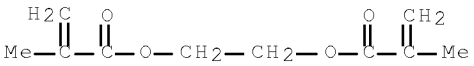
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

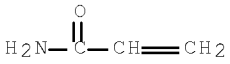
CRN 97-90-5
CMF C10 H14 O4



CM 5

CRN 79-06-1

CMF C3 H5 N O



IC ICM C08F
CC 35-4 (Chemistry of Synthetic High Polymers)
IT Dispersing agents
(salt-free dispersions of water-soluble (co)polymers from water-soluble monomers and quaternized bis(dialkylaminomethyl)methyl (meth)acrylate for dispersants)
IT Wetting agents
(salt-free dispersions of water-soluble (co)polymers from water-soluble monomers and quaternized bis(dialkylaminomethyl)methyl (meth)acrylate for textile wetting agents)
IT 352201-76-4P
(salt-free dispersions of water-soluble (co)polymers based on cationic monomers and containing quaternized bis(dialkylaminomethyl)methyl (meth)acrylate)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 17 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:526119 HCAPLUS Full-text
DOCUMENT NUMBER: 135:123953
TITLE: Comb polymers prepared from ATRP macromonomers
INVENTOR(S): Muehlebach, Andreas; Rime, Francois; Auschra, Clemens; Eckstein, Ernst
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051534	A1	20010719	WO 2001-EP53 <--	20010104
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2394660	A1	20010719	CA 2001-2394660 <--	20010104
BR 2001007548	A	20021008	BR 2001-7548 <--	20010104
EP 1254185	A1	20021106	EP 2001-909579 <--	20010104

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2003519703	T	20030624	JP 2001-551118 <--	20010104
CN 1506390	A	20040623	CN 2003-10104756 <--	20010104
MX 2002006782	A	20021023	MX 2002-6782 <--	20020710
US 20030166755	A1	20030904	US 2002-169884 <--	20020710
US 6936656	B2	20050830		

PRIORITY APPLN. INFO.:

EP 2000-810023 <--	A	20000111
CN 2001-1803641 <--	A	20010104
WO 2001-EP53 <--	W	20010104

ED Entered STN: 20 Jul 2001

AB Comb polymers and macromonomers based on acrylates prepared by the ATRP (Atom Transfer Radical Polymerization) method having improved capability of dispersing pigments in the given solvent can be used in compns. comprising the comb polymers and macromonomers dispersible inorg. or organic pigment particles such as inks, coating materials and be applied to any suitable substrate, such as metal, wood plastic or ceramic materials. Thus, 5% comb polymer having improved dispersant performance (formed by the copolymn. of macromer acryloyl terminated poly(Bu acrylate) and methyacrylic acid) in a alkyd/melamine based coating system can improve gloss in the final coating and give improved rheol. of the millbase.

IT 350679-82-2P

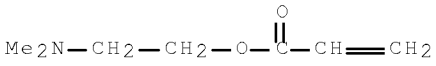
(comb polymers prepared from ATRP macromonomers)

RN 350679-82-2 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, graft (CA INDEX NAME)

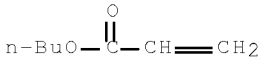
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



IT 281198-01-4P

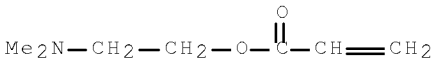
(comb polymers prepared from ATRP macromonomers)

RN 281198-01-4 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, block (9CI) (CA INDEX NAME)

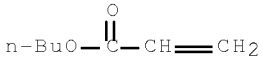
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



IT 350236-12-3P 350679-05-5P 350680-38-5P

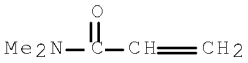
(comb polymers prepared from ATRP macromonomers)

RN 350236-12-3 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate and N,N-dimethyl-2-propenamide, graft (9CI) (CA INDEX NAME)

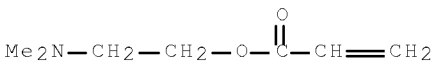
CM 1

CRN 2680-03-7
CMF C5 H9 N O



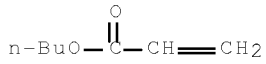
CM 2

CRN 2439-35-2
CMF C7 H13 N O2



CM 3

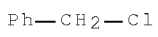
CRN 141-32-2
CMF C7 H12 O2



RN 350679-85-5 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, graft, compd. with (chloromethyl)benzene (9CI) (CA INDEX NAME)

CM 1

CRN 100-44-7
CMF C7 H7 Cl

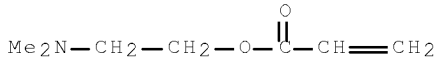


CM 2

CRN 350679-82-2
CMF (C7 H13 N O2 . C7 H12 O2)x
CCI PMS

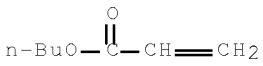
CM 3

CRN 2439-35-2
CMF C7 H13 N O2



CM 4

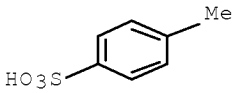
CRN 141-32-2
CMF C7 H12 O2



RN 350680-38-5 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, graft, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 104-15-4
CMF C7 H8 O3 S

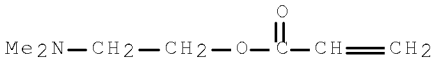


CM 2

CRN 350679-82-2
CMF (C7 H13 N O2 . C7 H12 O2)x
CCI PMS

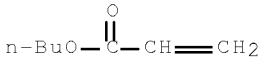
CM 3

CRN 2439-35-2
CMF C7 H13 N O2



CM 4

CRN 141-32-2
CMF C7 H12 O2



IC ICM C08F293-00
ICS C08L053-00; C08L051-00; C08F002-38; C08F004-40; C09D011-00
CC 42-12 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35

IT Coating materials
Dispersing agents
Inks
Polymerization catalysts
(comb polymers prepared from ATRP macromonomers)
IT 9003-49-0DP, Butyl acrylate homopolymer, (meth)acryloyl or Br terminated 350679-82-2P
(comb polymers prepared from ATRP macromonomers)
IT 79-10-7DP, Acrylic acid, reaction products with polyacrylate 79-41-4DP, Methacrylic acid, reaction products with polyacrylate 1075-49-6DP, 4-Vinylbenzoic acid, reaction products with star-shaped polyacrylate 28574-59-6DP, Polydimethylaminoethyl acrylate, methacryloyl terminated 281198-01-4P 281198-05-8P
(comb polymers prepared from ATRP macromonomers)
IT 112718-86-2P, Acrylic acid-butyl acrylate graft copolymer 116107-73-4P 150673-30-6P 350236-11-2P 350236-12-3P 350679-85-5P 350680-38-5P
(comb polymers prepared from ATRP macromonomers)
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 18 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:453145 HCAPLUS Full-text
DOCUMENT NUMBER: 135:63022
TITLE: Graft copolymer with an amide functional group as a pigment dispersant
INVENTOR(S): Ma, Sheau-Hwa
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044330	A1	20010621	WO 2000-US34200 <--	20001215
W: AT, AU, BR, CA, CH, CN, DE, DK, FI, GB, IN, JP, KR, MX, PT, SE RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6495618	B1	20021217	US 1999-466259 <--	19991217
CA 2389362	A1	20010621	CA 2000-2389362 <--	20001215
BR 2000016768	A	20020903	BR 2000-16768 <--	20001215
EP 1237966	A1	20020911	EP 2000-990228 <--	20001215
EP 1237966	B1	20060301		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2003517063	T	20030520	JP 2001-544817 <--	20001215
AU 781733	B2	20050609	AU 2001-27281 <--	20001215
IN 2002MN00551	A	20060505	IN 2002-MN551 <--	20020429

MX 2002005944	A	20030128	MX 2002-5944 <--		20020614
JP 2007107013	A	20070426	JP 2006-327425 <--		20061204
PRIORITY APPLN. INFO.:			US 1999-466259 <--	A	19991217
			JP 2001-544817 <--	A3	20001215
			WO 2000-US34200 <--	W	20001215

ED Entered STN: 22 Jun 2001

AB A polymer dispersant for pigments based on a graft copolymer wherein the graft copolymer has a weight average mol. weight of at least 3000 and has 10-90 parts of a polymeric backbone and 90-10 parts of macromonomer side chains attached to the backbone and wherein at least 20 parts of the polymeric backbone has attached thereto an amide group which serves as a pigment anchoring group. The backbone may also have attached thereto an addnl. pigment anchoring group selected from the group consisting of aromatic ester, aromatic amine, aliphatic amine, and quaternary ammonium groups, or mixts. thereof. These materials disperse a wide variety of pigments and are useful in solvent borne coatings where they can provide improved efficiency of pigment use, lower paint viscosity, and reduced emission of volatile organic solvent. Thus, preparing a macromonomer from Me methacrylate and Bu methacrylate by using diaquabis(borondifluorodiphenylglyoximato) cobaltate(II) as chain transfer agent and Vazo 67 (azo initiator), and polymerizing the macromonomer with N-vinyl-2-pyrrolidone and 2-hydroxyethyl acrylate using tert-Bu peroctoate gave a graft copolymer which was used as dispersant for pigment with good dispersion stability.

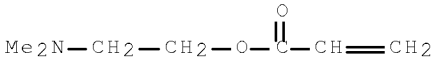
IT 345348-93-8P 345348-95-0P 345348-97-2P
345348-98-3P
(dispersing agents; graft copolymer with amide functional group as a pigment dispersant)

RN 345348-93-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, 1-ethenyl-2-pyrrolidinone, 2-hydroxyethyl 2-propenoate and methyl 2-methyl-2-propenoate, graft (CA INDEX NAME)

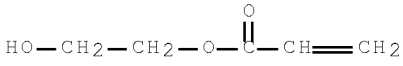
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



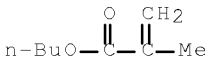
CM 2

CRN 818-61-1
CMF C5 H8 O3



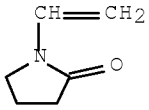
CM 3

CRN 97-88-1
CMF C8 H14 O2



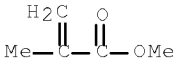
CM 4

CRN 88-12-0
CMF C6 H9 N O



CM 5

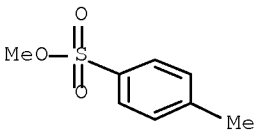
CRN 80-62-6
CMF C5 H8 O2



RN 345348-95-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, 1-ethenyl-2-pyrrolidinone, 2-hydroxyethyl 2-propenoate and methyl 2-methyl-2-propenoate, graft, compd. with methyl 4-methylbenzenesulfonate (CA INDEX NAME)

CM 1

CRN 80-48-8
CMF C8 H10 O3 S

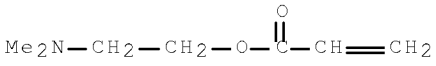


CM 2

CRN 345348-93-8
CMF (C8 H14 O2 . C7 H13 N O2 . C6 H9 N O . C5 H8 O3 . C5 H8 O2)x
CCI PMS

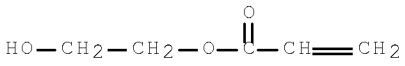
CM 3

CRN 2439-35-2
CMF C7 H13 N O2



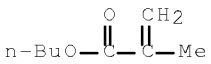
CM 4

CRN 818-61-1
CMF C5 H8 O3



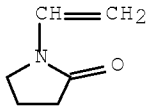
CM 5

CRN 97-88-1
CMF C8 H14 O2



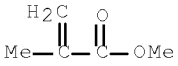
CM 6

CRN 88-12-0
CMF C6 H9 N O



CM 7

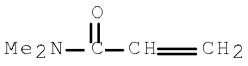
CRN 80-62-6
CMF C5 H8 O2



RN 345348-97-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-(dimethylamino)ethyl 2-propenoate, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-propenoate, graft (9CI) (CA INDEX NAME)

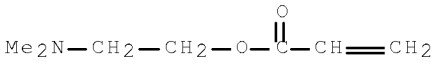
CM 1

CRN 2680-03-7
CMF C5 H9 N O



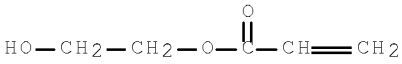
CM 2

CRN 2439-35-2
CMF C7 H13 N O2



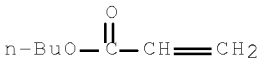
CM 3

CRN 818-61-1
CMF C5 H8 O3



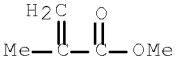
CM 4

CRN 141-32-2
CMF C7 H12 O2



CM 5

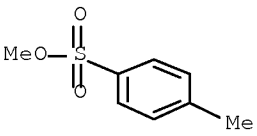
CRN 80-62-6
CMF C5 H8 O2



RN 345348-98-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-(dimethylamino)ethyl 2-propenoate, N,N-dimethyl-2-propenamide and 2-hydroxyethyl 2-propenoate, graft, compd. with methyl 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 80-48-8
CMF C8 H10 O3 S



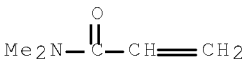
CM 2

CRN 345348-97-2

CMF (C7 H13 N O2 . C7 H12 O2 . C5 H9 N O . C5 H8 O3 . C5 H8 O2)x
CCI PMS

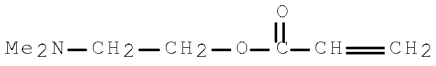
CM 3

CRN 2680-03-7
CMF C5 H9 N O



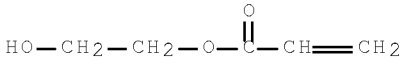
CM 4

CRN 2439-35-2
CMF C7 H13 N O2



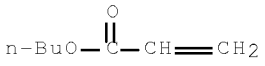
CM 5

CRN 818-61-1
CMF C5 H8 O3



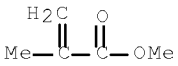
CM 6

CRN 141-32-2
CMF C7 H12 O2



CM 7

CRN 80-62-6
CMF C5 H8 O2



IC ICM C08F265-10
ICS C08F271-02; C08F008-30; B01F017-00; C08L051-00
CC 46-4 (Surface Active Agents and Detergents)
Section cross-reference(s): 35, 42
IT Dispersing agents
Pigments, nonbiological
(graft copolymer with amide functional group as a pigment dispersant)
IT 345348-92-7P 345348-93-8P 345348-94-9DP, compound with N-benzylmethylamine 345348-95-0P 345348-96-1P 345348-97-2P 345348-98-3P 345664-80-4P 345664-82-6P
(dispersing agents; graft copolymer with amide functional group as a pigment dispersant)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 19 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:881084 HCAPLUS Full-text
DOCUMENT NUMBER: 134:49243
TITLE: Resin composition for ink-jet recording sheet and recording sheet made with the same
INVENTOR(S): Sumita, Katsuhiko; Kataoka, Kazuya; Kawai, Kenichi; Omura, Masaya; Iseki, Aika
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 140 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000074945	A1	20001214	WO 2000-JP3611 <--	20000602
W: US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2000343811	A	20001212	JP 1999-158814 <--	19990604
JP 2001121814	A	20010508	JP 1999-305781 <--	19991027
JP 2001123075	A	20010508	JP 1999-305943 <--	19991027
JP 2001146072	A	20010529	JP 1999-330510 <--	19991119
JP 2001150804	A	20010605	JP 1999-336876 <--	19991126
JP 2001171227	A	20010626	JP 1999-360016 <--	19991217

JP 2001213046	A	20010807	JP 2000-28639 <--	20000207
JP 2001219640	A	20010814	JP 2000-33986 <--	20000210
EP 1114734	A1	20010711	EP 2000-935535 <--	20000602

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRIORITY APPLN. INFO.:	JP 1999-158814 <--	A	19990604
	JP 1999-305781 <--	A	19991027
	JP 1999-305943 <--	A	19991027
	JP 1999-330510 <--	A	19991119
	JP 1999-336876 <--	A	19991126
	JP 1999-360016 <--	A	19991217
	JP 2000-28639 <--	A	20000207
	JP 2000-33986 <--	A	20000210
	WO 2000-JP3611 <--	W	20000602

ED Entered STN: 15 Dec 2000

AB A resin composition for ink-jet recording sheets which comprises (1) a cationic acrylic copolymer having crosslinkable groups, (2) a saponified vinyl acetate copolymer, and (3) a modifier and with which ink-absorbing properties and water resistance are improved. Examples of the modifier include a water-compatible polyurethane resin, a polyurethane-based graft polymer mixture, a polyester-based graft polymer mixture, and a blocked isocyanate compound With the modifier, the properties of the resin composition are regulated. Usable in place of the copolymer (1) is a cationic acrylic copolymer obtained by copolymg. a monomer having an alkylene oxide group or an acrylic copolymer obtained by copolymg. a monomer having a hydrolyzable silyl group. A solution of a cellulose derivative in a mixed solvent is applied and dried to form an image-receiving layer having a network structure. An image-receiving layer comprising a mixture of a copolymer of a monomer having an alkylene oxide group with a hot-melt adhesive is thermally transferred to a fabric after recording.

IT 210779-65-0P, A 174-Butyl acrylate-Blemmer PE 200-diethylaminoethyl methacrylate-Methyl methacrylate copolymer
210779-66-1P, Acrylic acid-A 174-Butyl acrylate-Blemmer PE 200-diethylaminoethyl methacrylate-Methyl methacrylate copolymer
313057-77-1P, Butyl methacrylate-diethylaminoethyl methacrylate-methyl methacrylate-3-(trimethoxysilyl)propyl methacrylate copolymer
(resin composition for ink-jet recording sheet from)

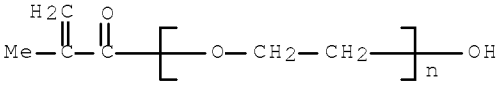
RN 210779-65-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

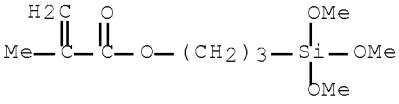
CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2
CCI PMS



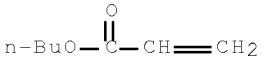
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



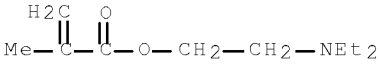
CM 3

CRN 141-32-2
CMF C7 H12 O2



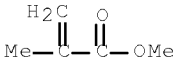
CM 4

CRN 105-16-8
CMF C10 H19 N O2



CM 5

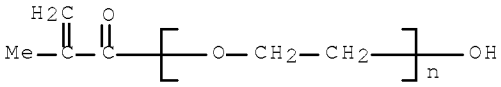
CRN 80-62-6
CMF C5 H8 O2



RN 210779-66-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, α-(2-methyl-1-oxo-2-propenyl)-ω-hydroxypoly(oxy-1,2-ethanediyl), 2-propenoic acid and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

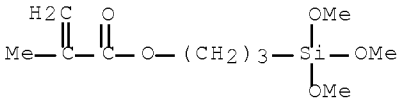
CM 1

CRN 25736-86-1
CMF (C2 H4 O)n C4 H6 O2
CCI PMS



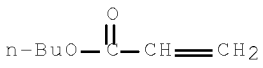
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



CM 3

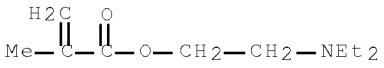
CRN 141-32-2
CMF C7 H12 O2



CM 4

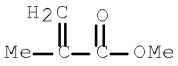
CRN 105-16-8

CMF C10 H19 N O2



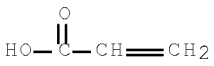
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

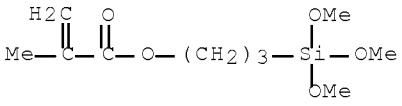
CRN 79-10-7
CMF C3 H4 O2



RN 313057-77-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(diethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

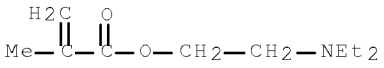
CRN 2530-85-0
CMF C10 H20 O5 Si



CM 2

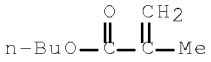
CRN 105-16-8

CMF C10 H19 N O2



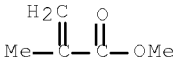
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

CRN 80-62-6
CMF C5 H8 O2



IC B41M005-00
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35, 38
IT 210779-65-0P, A 174-Butyl acrylate-Blemmer PE 200-diethylaminoethyl methacrylate-Methyl methacrylate copolymer
210779-66-1P, Acrylic acid-A 174-Butyl acrylate-Blemmer PE 200-diethylaminoethyl methacrylate-Methyl methacrylate copolymer
313057-77-1P, Butyl methacrylate-diethylaminoethyl methacrylate-methyl methacrylate-3-(trimethoxysilyl)propyl methacrylate copolymer
(resin composition for ink-jet recording sheet from)
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 20 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:50080 HCAPLUS Full-text
DOCUMENT NUMBER: 132:93817
TITLE: Producing amphoteric resin as dispersant or binder for pigments used in weather-resistant paints and inks
INVENTOR(S): Tamazawa, Mitsuo; Kuroda, Yasuo
PATENT ASSIGNEE(S): Taisei Chemical Industries Ltd., Japan

SOURCE: Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 972783	A1	20000119	EP 1999-305531 <--	19990713
EP 972783	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2963897	B2	19991018	JP 1998-200544 <--	19980715
JP 2000026560	A	20000125		
AT 241653	T	20030615	AT 1999-305531 <--	19990713
US 6174963	B1	20010116	US 1999-353610 <--	19990714

PRIORITY APPLN. INFO.: JP 1998-200544 A 19980715 <--

ED Entered STN: 21 Jan 2000

AB An amphoteric resin is made by graft copolymg. on the main chain of an α,β-ethylenically unsatd. component C, a copolymerizable basic prepolymer A2 which is obtained by reacting together (i) a prepolymer A1 which is obtained by polymerization of a first α,β-ethylenically polymerizable compound and a polymerization initiator containing a terminal carboxyl group, and (ii) a compound having an epoxy group such as glycidyl (meth)acrylate, in an amount 0.1-1.0 equiv to the amino group equivalent of the prepolymer A1; and an α,β-ethylenically polymerizable acidic prepolymer B2, which is obtained by an analogous procedure to prepare A2. The resulting resin has superior dispersibility for functional compds. such as various pigments and improved weather resistance. A well dispersed pigment used as a binder the graft copolymer (preparation given) of acrylic acid, Bu acrylate, cyclohexyl methacrylate, dimethylaminoethyl methacrylate, glycidyl methacrylate, 2-hydroxyethyl methacrylate, and Me methacrylate.

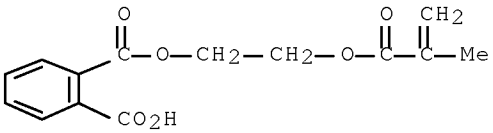
IT 255052-89-2P, Acrylic acid-butyl acrylate-cyclohexyl methacrylate-N,N-dimethylaminoethyl methacrylate-glycidyl methacrylate-2-hydroxyethyl methacrylate-2-methacryloyloxyethyl phthalic acid-methyl methacrylate graft copolymer
(producing amphoteric resin as dispersant or binder for pigments used in weather-resistant paints and inks)

RN 255052-89-2 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with butyl 2-propenoate, cyclohexyl 2-methyl-2-propenoate, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

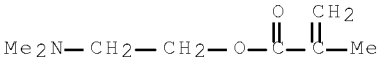
CM 1

CRN 27697-00-3
CMF C14 H14 O6



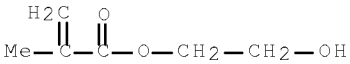
CM 2

CRN 2867-47-2
CMF C8 H15 N O2



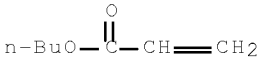
CM 3

CRN 868-77-9
CMF C6 H10 O3



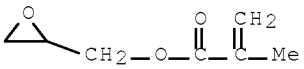
CM 4

CRN 141-32-2
CMF C7 H12 O2



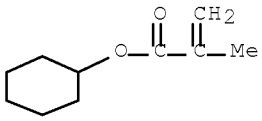
CM 5

CRN 106-91-2
CMF C7 H10 O3



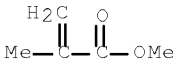
CM 6

CRN 101-43-9
CMF C10 H16 O2



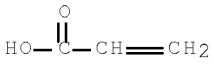
CM 7

CRN 80-62-6
CMF C5 H8 O2



CM 8

CRN 79-10-7
CMF C3 H4 O2



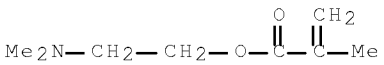
IC ICM C08F290-04
ICS C08F290-12; C09D151-00
CC 35-4 (Chemistry of Synthetic High Polymers)
IT Dispersing agents
Pigments, nonbiological
(producing amphoteric resin as dispersant or binder for pigments used in weather-resistant paints and inks)
IT 255052-89-2P, Acrylic acid-butyl acrylate-cyclohexyl methacrylate-N,N-dimethylaminoethyl methacrylate-glycidyl methacrylate-2-hydroxyethyl methacrylate-2-methacryloyloxyethyl phthalic acid-methyl methacrylate graft copolymer
(producing amphoteric resin as dispersant or binder for pigments used in weather-resistant paints and inks)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L50 ANSWER 21 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:723884 HCAPLUS Full-text
DOCUMENT NUMBER: 132:279594
TITLE: Electrolyte stability of the MBHD copolymer latex
AUTHOR(S): Yu, Zhangqing; Li, Bogeng; Pan, Zuren
CORPORATE SOURCE: Institute of Chemical Engineering, South China University of Technology, Peop. Rep. China
SOURCE: Huanan Ligong Daxue Xuebao, Ziran Kexueban (1999), 27(9), 117-121
CODEN: HLDKEZ; ISSN: 1000-565X
PUBLISHER: Huanan Ligong Daxue Xuebao Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 14 Nov 1999
AB The MBHD copolymer latex of Me methacrylate, Bu acrylate, hydroxyethyl methacrylate (HEMA) and dimethylaminoethyl methacrylate (DMAEMA) is synthesized. The effects of the monomer feed rate, polymerization temperature, the weight ratio of the non-ionic to anionic emulsifier, the emulsifier content, and the content of the HEMA and DMAEMA on the electrolyte stability of the latex are investigated. The results show that a higher content of the HEMA, DMAEMA, and the emulsifiers is favorable for the electrolyte stability of the latex. The introduction of the monomer HEMA may improve the electrolyte stability of the copolymer latex because of the higher hydrophilicity of the particles. Raising polymerization temperature is also beneficial to the electrolyte stability of the latex due to the fact that bigger particles are formed. The electrolyte stability of the latex prepared by batch process is worse than that prepared by semi-continuous process.
IT 72122-73-7P, Butyl acrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer
(preparation and electrolyte stability of Bu acrylate-dimethylaminoethyl methacrylate-hydroxyethyl methacrylate-Me methacrylate copolymer latex)
RN 72122-73-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

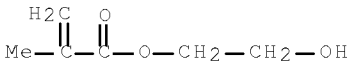
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



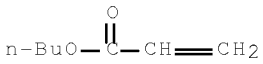
CM 2

CRN 868-77-9
CMF C6 H10 O3



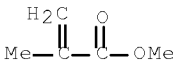
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 80-62-6
CMF C5 H8 O2



CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 42, 46
IT Emulsifying agents
(anionic, SLS; electrolyte stability of MBHD copolymer latex)
IT Emulsifying agents
(nonionic, OP-10; electrolyte stability of MBHD copolymer latex)
IT 72122-73-7P, Butyl acrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer
(preparation and electrolyte stability of Bu acrylate-dimethylaminoethyl methacrylate-hydroxyethyl methacrylate-Me methacrylate copolymer latex)

L50 ANSWER 22 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:698156 HCAPLUS Full-text
DOCUMENT NUMBER: 131:315878
TITLE: Cationic emulsions obtained by radical polymerization and ink-jet printing sheets containing them
INVENTOR(S): Torii, Nobuhiro; Umemura, Yutaka; Michimoto, Masahiro
PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan; Chuo Rika Kogyo K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11302337	A	19991102	JP 1998-107715 <--	19980417
JP 3490290	B2	20040126		
PRIORITY APPLN. INFO.:			JP 1998-107715 <--	19980417

ED Entered STN: 02 Nov 1999

AB The emulsions are obtained by radical polymerization of tertiary and/or quaternary amino-containing radically polymerizable monomers and comonomers in the presence of EVA aqueous emulsions. The printing sheets contain the emulsions as white pigment layers, mirror layers, or internal layers. The emulsions show good storage stability and give ink-jet printing paper with good water resistance and high resolution

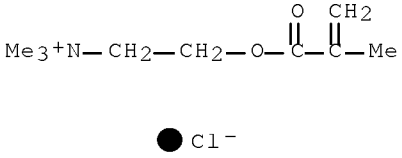
IT 62470-14-8P 80044-52-6P, Butyl acrylate-dimethylaminoethyl acrylate-methyl methacrylate copolymer 154500-22-8P
(cationic emulsions obtained by radical polymerization for high-resolution ink-jet printing paper)

RN 62470-14-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

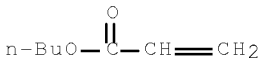
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



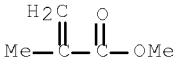
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

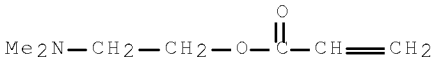
CRN 80-62-6
CMF C5 H8 O2



RN 80044-52-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 2-(dimethylamino)ethyl 2-propenoate (CA INDEX NAME)

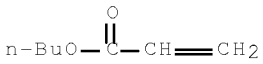
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



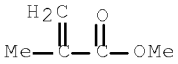
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

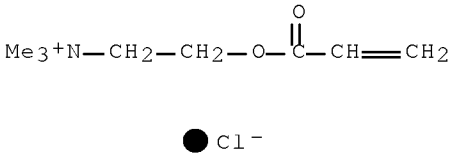
CRN 80-62-6
CMF C5 H8 O2



RN 154500-22-8 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

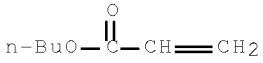
CM 1

CRN 44992-01-0
CMF C8 H16 N O2 . Cl



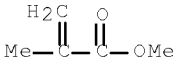
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM C08F255-02
ICS B41M005-00; C08F263-04; C08L051-00; C09D151-00; C09D151-06; D21H019-44
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35, 38
IT Emulsifying agents
(EVA; cationic emulsions obtained by radical polymerization for high-resolution ink-jet printing paper)
IT 62470-14-8P 80044-52-6P, Butyl acrylate-dimethylaminoethyl acrylate-methyl methacrylate copolymer 154500-22-8P
(cationic emulsions obtained by radical polymerization for high-resolution ink-jet printing paper)

L50 ANSWER 23 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:458927 HCAPLUS Full-text
DOCUMENT NUMBER: 131:88320
TITLE: Stable aqueous dispersions based on water-soluble polymers containing a cationic polymeric dispersant having hydrophobic groups
INVENTOR(S): Tembou, Nzudie Denis; Collette, Christian

PATENT ASSIGNEE(S): Elf Atochem S. A., Fr.
SOURCE: Fr. Demande, 13 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2770526	A1	19990507	FR 1997-13859 <--	19971104
FR 2770526	B1	20000114		
EP 915103	A1	19990512	EP 1998-402667 <--	19981027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6225395	B1	20010501	US 1998-182651 <--	19981030
AU 9890528	A	19990603	AU 1998-90528 <--	19981102
AU 719694	B2	20000518		
NO 9805127	A	19990505	NO 1998-5127 <--	19981103
CN 1224727	A	19990804	CN 1998-125824 <--	19981104
JP 11217410	A	19990810	JP 1998-313810 <--	19981104

PRIORITY APPLN. INFO.: FR 1997-13859 A 19971104 <--

ED Entered STN: 27 Jul 1999

AB Low-viscosity, highly concentrated, stable aqueous dispersion of water-soluble polymers are manufactured in the presence of polymeric dispersants containing repeating units of ≥1 water-soluble monomer 15-99, repeating units of ≥1 water-insol. monomer 1-85, and repeating units of ≥1 amphiphilic monomer. A typical dispersant was manufactured by radical polymerization of 140 parts styrene with 175 parts 80% aqueous solution of acryloyloxyethyltrimethylammonium chloride in an EtOH-MEK mixture

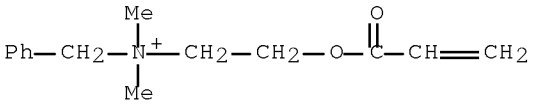
IT 211106-71-7P
(stable aqueous dispersions based on water-soluble polymers containing a cationic polymeric dispersant having hydrophobic groups)

RN 211106-71-7 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with butyl 2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

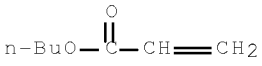
CM 1

CRN 46830-22-2
CMF C14 H20 N O2 . Cl



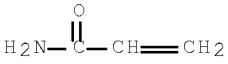
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 79-06-1
CMF C3 H5 N O



IC ICM C08F212-08
ICS C08F220-56; C08F002-22
ICI C08F212-08, C08F220-34; C08F220-56, C08F220-34, C08F220-18
CC 35-4 (Chemistry of Synthetic High Polymers)
IT Dispersing agents
(stable aqueous dispersions based on water-soluble polymers containing a cationic polymeric dispersant having hydrophobic groups)
IT 211106-71-7P
(stable aqueous dispersions based on water-soluble polymers containing a cationic polymeric dispersant having hydrophobic groups)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 24 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:457938 HCAPLUS Full-text
DOCUMENT NUMBER: 131:89184
TITLE: Two-phase pigmented ink jet inks
INVENTOR(S): Reardon, Joseph Edward
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 928821	A1	19990714	EP 1999-100011 <--	19990104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 11263931	A	19990928	JP 1999-5799 <--	19990112

PRIORITY APPLN. INFO.: US 1998-5709 A 19980112 <--

ED Entered STN: 27 Jul 1999

AB Two-phase ink jet ink compns. have an aqueous continuous phase containing water and an ionic component and a non-aqueous and discontinuous phase containing a non-aqueous vehicle, a colorant and an ionic polymer, wherein the ionic polymer functions as a dispersant and a binder and has a ionic charge opposite that of the ionic component in the aqueous phase. Preparing a 75/5/20 ethylhexyl methacrylate-iso-Bu methacrylate-hydroxyethyl methacrylate (I) macromer, adding Vazo 88 2.5, PhMe 19, Me methacrylate 37, styrene 10, Et acrylate 26, I 20, and dimethylaminoethyl methacrylate 7 g to a kettle containing 67.4 g of the macromer and 65 g PhMe, heating to 100°, milling the block copolymer 37, cyan pigment (BT 617D) 19, and Bu cellosolve 44 g, mixing (25 g) with 4.9 g citric acid and 30.9 g water, and stirring with water 16.4, imidazolidone 31, and ethylene glycol 25 g gave an ink. The ink was printed using an ink jet printer onto a cotton fabric, showing good washfastness.

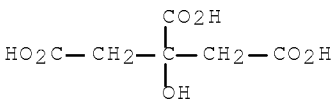
IT 229948-05-4P, Ethylhexyl methacrylate-isobutyl methacrylate-hydroxyethyl methacrylate-methyl methacrylate-styrene-ethyl acrylate-dimethylaminoethyl methacrylate block copolymer citric acid salt
(binder and dispersant; two-phase pigmented ink jet inks containing acrylic ionomers as dispersant and binder)

RN 229948-05-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate, block, 2-hydroxy-1,2,3-propanetricarboxylate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 77-92-9
CMF C6 H8 O7



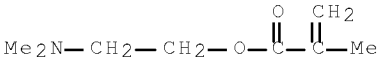
CM 2

CRN 229948-04-3

CMF (C12 H22 O2 . C8 H15 N O2 . C8 H14 O2 . C8 H8 . C6 H10 O3 . C5 H8 O2 . C5 H8 O2)x
CCI PMS

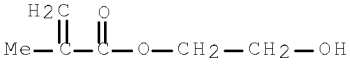
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



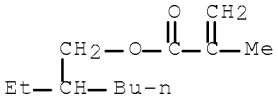
CM 4

CRN 868-77-9
CMF C6 H10 O3



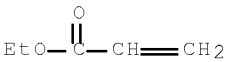
CM 5

CRN 688-84-6
CMF C12 H22 O2



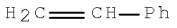
CM 6

CRN 140-88-5
CMF C5 H8 O2



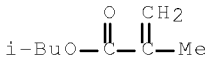
CM 7

CRN 100-42-5
CMF C8 H8



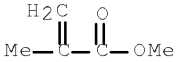
CM 8

CRN 97-86-9
CMF C8 H14 O2



CM 9

CRN 80-62-6
CMF C5 H8 O2



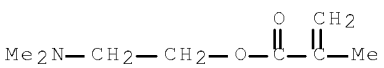
IC ICM C09D011-00
CC 42-12 (Coatings, Inks, and Related Products)
Section cross-reference(s): 40
IT **Textiles**
(cotton; two-phase pigmented ink jet inks containing acrylic ionomers as dispersant and binder)
IT **Textile** printing
(two-phase pigmented ink jet inks containing acrylic ionomers as dispersant and binder)
IT **229948-05-4P**, Ethylhexyl methacrylate-isobutyl methacrylate-hydroxyethyl methacrylate-methyl methacrylate-styrene-ethyl acrylate-dimethylaminoethyl methacrylate **block copolymer** citric acid salt
(binder and dispersant; two-phase pigmented ink jet inks containing acrylic ionomers as dispersant and binder)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 25 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:393337 HCAPLUS Full-text
DOCUMENT NUMBER: 131:158868
TITLE: Stability of the GHD latex crosslinkable at

ambient temperature
AUTHOR(S): Yu, Zhang-Qing; Li, Bo-Geng; Li, Bao-Fang; Pan, Zu-Ren
CORPORATE SOURCE: Inst. Chem. Eng., South China Univ. Technol., Canton, 510641, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1999), 20(6), 978-983
CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 28 Jun 1999
AB The glycidyl methacrylate (GMA)-hydroxyl methacrylate (HEMA)-dimethylaminoethyl methacrylate (DMAEMA) copolymer latex (GHD) which is crosslinkable at ambient temperature, was synthesized. In presence of the seed latex of Me methacrylate (MMA)-Bu acrylate (BA)-GMA, the effect of the polymerization technol. and the recipes on the process stability of the emulsion copolymn. of MMA-BA-HEMA-DMAEMA and the shelf life of the obtained crosslinkable latex were studied. The process stability and the shelf life of the latex were improved as more emulsifier was used. When the polymerization temperature is raised, the process stability becomes worse because the crosslinking coagulation is increased, but the shelf life of the latex becomes longer because of the smaller particles and the lower surface tension. Raising the glass transition temperature (Tg) of the seed polymer can depress the crosslinking coagulation during the copolymn. and improve the process stability. Increasing the content of HEMA and DMAEMA has little effect on the process stability but it reduces the shelf life of the latex. When the functional groups are separated through the particle designing, the latex with acceptable shelf life is obtained. The crosslinking coagulation among functional groups may be the key factor which dets. the process stability and the shelf life of the latex crosslinked at ambient temperature Coating methacrylate copolymer self crosslinkable.
IT 72122-73-7P, Butyl acrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer (latex; preparation and stability of room-temperature crosslinkable)
RN 72122-73-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

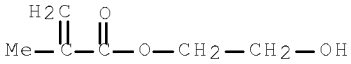
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



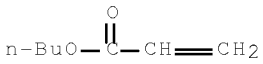
CM 2

CRN 868-77-9
CMF C6 H10 O3



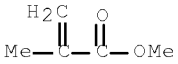
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 80-62-6
CMF C5 H8 O2



CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35
IT Emulsifying agents
(OP 10 and sodium laurylsulfate; preparation and stability of room-temperature
crosslinkable Bu acrylate-dimethylaminoethyl methacrylate-Me methacrylate-2-hydroxyethyl methacrylate copolymer latex)
IT 72122-73-7P, Butyl acrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer
(latex; preparation and stability of room-temperature crosslinkable)

L50 ANSWER 26 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:349445 HCAPLUS Full-text
DOCUMENT NUMBER: 131:144899
TITLE: Stability of emulsion copolymerization system of MMA-BA-DMAEMA
AUTHOR(S): Yu, Zhang-Qing; Li, Bog-Eng; Li, Bao-Fang; Pan, Zu-Ren
CORPORATE SOURCE: Institute of Polymer Science & Technology, Zhejiang Univ., Hangzhou, 310027, Peop. Rep. China
SOURCE: Zhejiang Daxue Xuebao, Ziran Kexueban (1999), 33(1), 57-62
CODEN: ZDXKE5; ISSN: 0253-9861
PUBLISHER: Zhejiang Daxue
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 08 Jun 1999

AB The terpolymer latex of MMA-BA-DMAEMA was prepared in both batch and semi-continuous emulsion copolymns. The effects of emulsifier type and concentration, polymerization temperature, the feed policy and feed rate of emulsified monomer on the stability of polymerization system were studied systematically. The HLB is not a critical value for selecting the emulsifier used in the emulsion polymerization containing DMAEMA. The available method for determining emulsifier system is still directly by the stability observation in the polymerization runs. The emulsifier type is a key factor influencing the stability of polymerization system. An increase in the emulsifier concentration and a decrease of polymerization temperature improved the stability of polymerization system. The content of functional monomer DMAEMA does not affect the stability of polymerization system obviously. A reduction of the feed rate of the emulsified monomers is favorable to the stability of polymerization system. The stability of batch polymerization is better than that of semi-continuous polymerization for this system, but the seeded and unseeded semi-continuous emulsion polymerization processes are similar in polymerization stability.

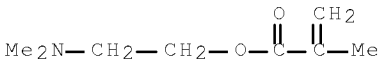
IT 35166-02-0P, Butyl acrylate-dimethylaminoethyl methacrylate-methyl methacrylate copolymer
(stability of emulsion copolymn. system of MMA, BA, and dimethylaminoethyl methacrylate with different emulsifiers)

RN 35166-02-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

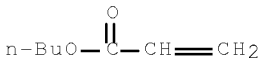
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



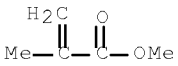
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



CC 35-4 (Chemistry of Synthetic High Polymers)
IT Emulsifying agents
(stability of emulsion copolymn. system of MMA, BA, and dimethylaminoethyl methacrylate with different emulsifiers)
IT 35166-02-0P, Butyl acrylate-dimethylaminoethyl methacrylate-methyl methacrylate copolymer
(stability of emulsion copolymn. system of MMA, BA, and dimethylaminoethyl methacrylate with different emulsifiers)

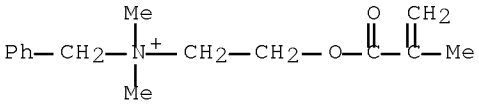
L50 ANSWER 27 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:56817 HCAPLUS Full-text
DOCUMENT NUMBER: 130:160642
TITLE: Manufacture of electrophotographic toner with stable positive chargeability
INVENTOR(S): Kishimoto, Takuji; Masuo, Kojiro
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11015192	A	19990122	JP 1997-183014 <--	19970624
JP 3255088	B2	20020212		
PRIORITY APPLN. INFO.:			JP 1997-183014 <--	19970624

ED Entered STN: 27 Jan 1999
AB A monomer is suspension polymerized in the presence of (A) 0.01-10 parts (based on 100 parts of the monomer) a copolymer from (a1) a (meth)acrylate monomer having a quaternary ammonium salt group, (a2) a (meth)acrylate monomer, and (a3) an aryl-containing vinylic monomer, (B) a colorant, and (C) 0.01-10 parts an inorg. cationic dispersant. The copolymer A shows polystyrene-converted Mw (by GPC in THF) 25,000-1,000,000 and includes the a1-derived unit 0.01-0.4 mol%.
IT 220170-89-8P 220170-90-1P
(charge controlling agent; electrophotog. toner including quaternary-ammonium-salt-containing acrylic polymer and showing stable chargeability)
RN 220170-89-8 HCAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with butyl 2-propenoate and ethenylbenzene (9CI) (CA INDEX NAME)

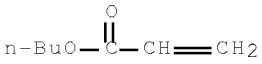
CM 1

CRN 46917-07-1
CMF C15 H22 N O2 . Cl



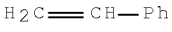
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

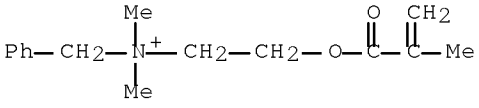
CRN 100-42-5
CMF C8 H8



RN 220170-90-1 HCAPLUS
CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 1,4-butanediyl di-2-propenoate, butyl 2-propenoate and ethenylbenzene (9CI) (CA INDEX NAME)

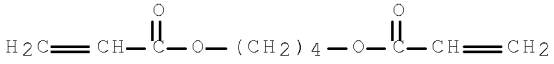
CM 1

CRN 46917-07-1
CMF C15 H22 N O2 . Cl



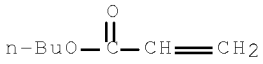
CM 2

CRN 1070-70-8
CMF C10 H14 O4



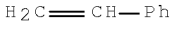
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 100-42-5
CMF C8 H8



IC ICM G03G009-087
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35
IT Dispersing agents
(cationic; electrophotog. toner including quaternary-ammonium-salt-containing acrylic polymer and showing stable chargeability)
IT 220170-89-8P 220170-90-1P
(charge controlling agent; electrophotog. toner including quaternary-ammonium-salt-containing acrylic polymer and showing stable chargeability)

L50 ANSWER 28 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:629082 HCAPLUS Full-text
DOCUMENT NUMBER: 130:4140
TITLE: Factors affecting particle size and its distribution of MMA-BA-DMAEMA copolymer emulsion
AUTHOR(S): Yu, Zhangqing; Li, Bogeng; Pan, Zuren
CORPORATE SOURCE: Institute of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, Peop. Rep.

China
SOURCE: Tuliao Gongye (1997), (5), 5-6
CODEN: TLKYD5; ISSN: 0253-4312
PUBLISHER: Huagongbu Tuliao Gongye Yanjiuso
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 06 Oct 1998

AB The MMA (Me methacrylate)-BA (Bu acrylate)-DMAEMA (dimethylaminoethyl methacrylate) copolymer emulsion was prepared with batch or semi-continuous emulsion polymerization process. The effect of compound emulsifier ratio and amount, reaction temperature, polymerization type, and amount of functional monomers on the emulsion resin particle size and size distribution was studied.

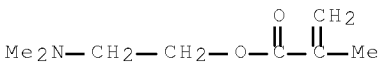
IT 35166-02-0P, Butyl acrylate-N,N-dimethylaminoethyl methacrylate-methyl methacrylate copolymer
(factors affecting particle size and distribution of Me methacrylate-Bu acrylate-dimethylaminoethyl methacrylate copolymer emulsion)

RN 35166-02-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

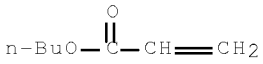
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



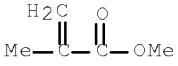
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37
IT Emulsifying agents
(effect on particle size and distribution of Me methacrylate-Bu acrylate-dimethylaminoethyl methacrylate copolymer emulsion)
IT 35166-02-0P, Butyl acrylate-N,N-dimethylaminoethyl methacrylate-methyl methacrylate copolymer
(factors affecting particle size and distribution of Me methacrylate-Bu acrylate-dimethylaminoethyl methacrylate copolymer emulsion)

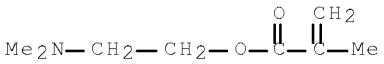
L50 ANSWER 29 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:217349 HCAPLUS Full-text
DOCUMENT NUMBER: 128:326301
ORIGINAL REFERENCE NO.: 128:64599a
TITLE: Hair cosmetic compositions
INVENTOR(S): Hiwata, Tomoaki; Kitani, Yasuo; Narasaki, Kanji; Ito, Kayo; Hayama, Kazuhide
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan; Mitsubishi Chemical Corp.
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10087439	A	19980407	JP 1996-239409 <--	19960910
JP 3620163	B2	20050216		
US 6375932	B1	20020423	US 1997-925669 <--	19970909
CN 1176094	A	19980318	CN 1997-118471 <--	19970910
CN 1151769	C	20040602		
PRIORITY APPLN. INFO.:			JP 1996-239406 A <--	19960910
			JP 1996-239409 A <--	19960910
			JP 1996-244910 A <--	19960917
			JP 1996-246055 A <--	19960918

ED Entered STN: 17 Apr 1998
AB Hair cosmetic compns. showing excellent hair treatment effects contain: (A)amine oxide group-containing copolymers having mol. weight 10,000-500,000 and (B) anionic polymers such as Diahold LP 503 and Gantrez ES-225 [in which A/B = 1/10 - 10/1 and A + B = 0.1 - 10 weight%]. Hair appeared soft after treatment.
IT 118037-65-3DP, oxidation products
(hair cosmetic compns.)
RN 118037-65-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

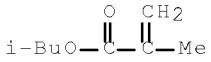
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



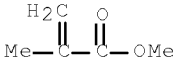
CM 2

CRN 97-86-9
CMF C8 H14 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM A61K007-06
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38
IT 41510-85-4DP, oxidation products 118037-65-3DP, oxidation products (hair cosmetic compns.)

L50 ANSWER 30 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:214448 HCAPLUS Full-text
DOCUMENT NUMBER: 128:326300
ORIGINAL REFERENCE NO.: 128:64598h,64599a
TITLE: Hair cosmetics
INVENTOR(S): Hiwata, Tomoaki; Kitani, Yasuo; Narasaki, Kanji; Ito, Kayo; Hayama, Kazuhide
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan; Mitsubishi Chemical Corp.
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10087442	A	19980407	JP 1996-244910 <--	19960917
JP 3620164	B2	20050216		
US 6375932	B1	20020423	US 1997-925669 <--	19970909
CN 1176094	A	19980318	CN 1997-118471 <--	19970910
CN 1151769	C	20040602		

PRIORITY APPLN. INFO.:

JP 1996-239406 A 19960910 <--
JP 1996-239409 A 19960910 <--
JP 1996-244910 A 19960917 <--
JP 1996-246055 A 19960918 <--

ED Entered STN: 16 Apr 1998

AB Hair cosmetics showing excellent hair treatment effects comprise: (A) amine oxide-containing polymers having average mol weight of 10,000-500,000 and (B) cationic polymers [in which A/B = 1/10 - 10/1 and A + B = 0.1-10 weight%]. A hair spray comprised amine oxide-containing polymer 2.5, UCARE Polymer JR-400 0.5, purified water 45.0, and ethanol to 100 weight%. Hair appeared soft after treatment.

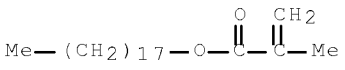
IT 68714-76-1DP, reaction products with di-Me sulfate
118037-65-3DP, oxidation products
(hair cosmetics)

RN 68714-76-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate (CA INDEX NAME)

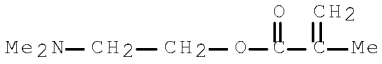
CM 1

CRN 32360-05-7
CMF C22 H42 O2



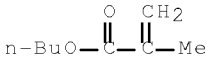
CM 2

CRN 2867-47-2
CMF C8 H15 N O2



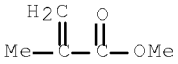
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

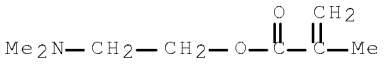
CRN 80-62-6
CMF C5 H8 O2



RN 118037-65-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

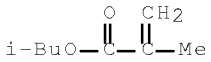
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



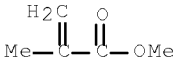
CM 2

CRN 97-86-9
CMF C8 H14 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM A61K007-06
ICS A61K007-11
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38
IT 41510-85-4DP, oxidation products 68714-76-1DP, reaction products with di-Me sulfate 118037-65-3DP, oxidation products (hair cosmetics)

L50 ANSWER 31 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:214447 HCAPLUS Full-text
DOCUMENT NUMBER: 128:326299
ORIGINAL REFERENCE NO.: 128:64595a,64598a
TITLE: Hair cosmetic compositions
INVENTOR(S): Hiwata, Tomoaki; Kitani, Yasuo; Narasaki, Kanji; Ito, Kayo; Hayama, Kazuhide
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan; Mitsubishi Chemical Corp.
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10087438	A	19980407	JP 1996-239406 <--	19960910
JP 3620162	B2	20050216		
US 6375932	B1	20020423	US 1997-925669 <--	19970909
CN 1176094	A	19980318	CN 1997-118471 <--	19970910
CN 1151769	C	20040602		

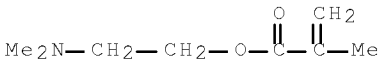
PRIORITY APPLN. INFO.:
JP 1996-239406 A 19960910 <--
JP 1996-239409 A 19960910 <--
JP 1996-244910 A 19960917 <--
JP 1996-246055 A 19960918 <--

ED Entered STN: 16 Apr 1998
AB Hair cosmetics showing excellent hair treatment effects comprise: (A) amine oxide-containing polymers having average mol weight of 10,000-500,000 and (B) nonionic polymers [in which A/B = 1/10 - 10/1 and A + B = 0.1-10 weight%]. A hair gel comprised amine oxide-containing polymer 2.5, Luviskol VA64 1.0, purified water 20.0, and ethanol to 100 weight %. Hair appeared soft after treatment.
IT 118037-65-3DP, oxidation products

(hair cosmetics)
RN 118037-65-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

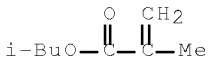
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



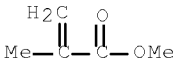
CM 2

CRN 97-86-9
CMF C8 H14 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM A61K007-06
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38
IT 41510-85-4DP, oxidation products 72018-12-3P 118037-65-3DP, oxidation products
(hair cosmetics)

L50 ANSWER 32 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:210616 HCAPLUS Full-text
DOCUMENT NUMBER: 128:326298
ORIGINAL REFERENCE NO.: 128:64595a,64598a
TITLE: Hair cosmetic compositions
INVENTOR(S): Hiwata, Tomoaki; Kitani, Yasuo; Narasaki, Kanji; Ito, Kayo; Hayama, Kazuhide
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10087443	A	19980407	JP 1996-246055 <--	19960918
JP 3620165	B2	20050216		
US 6375932	B1	20020423	US 1997-925669 <--	19970909
CN 1176094	A	19980318	CN 1997-118471 <--	19970910
CN 1151769	C	20040602		

PRIORITY APPLN. INFO.:
JP 1996-239406 A 19960910 <--
JP 1996-239409 A 19960910 <--
JP 1996-244910 A 19960917 <--
JP 1996-246055 A 19960918 <--

ED Entered STN: 15 Apr 1998

AB Hair cosmetics showing excellent hair treatment effects comprise: (A) amine oxide-containing polymers having average mol weight of 10,000-500,000 and (B) amphoteric polymers [in which A/B = 1/10 - 10/1 and A + B = 0.1-10 weight%]. A hair foam comprised amine oxide-containing polymer 2.5, Yukaformer AMPHOSET 0.5, purified water 45, and ethanol to 100 weight %. Hair appeared soft after treatment.

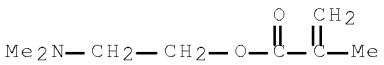
IT 118037-65-3DP, oxidation products
(hair cosmetics)

RN 118037-65-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

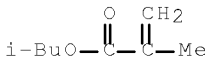
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



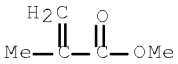
CM 2

CRN 97-86-9
CMF C8 H14 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM A61K007-06
ICS A61K007-11
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 38
IT 41510-85-4DP, oxidation products 118037-65-3DP, oxidation products (hair cosmetics)

L50 ANSWER 33 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:209696 HCAPLUS Full-text
DOCUMENT NUMBER: 128:217869
ORIGINAL REFERENCE NO.: 128:43165a,43168a
TITLE: Stability of emulsion copolymerization of acrylic monomers containing amino and hydroxyl groups
AUTHOR(S): Yu, Zhang-Qing; Li, Bo-Geng; Li, Bao-Fang; Pan, Zu-Ren
CORPORATE SOURCE: Institute Polymer Science Engineering, Zhejiang University, Hangzhou, 310027, Peop. Rep. China
SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1998), 19(3), 472-476
CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER: Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
ED Entered STN: 15 Apr 1998
AB The copolymer latex of MMA-BA-HEMA-DMAEMA (Me methacrylate-Bu acrylate-hydroxyethyl methacrylate-dimethylaminoethyl methacrylate) was prepared in the batch and semi-continuous emulsion copolymn. process. The effects of emulsifier type and concentration, polymerization temperature and the feeding rate of emulsified monomer on the stability of polymerization were studied systematically. The HLB is not critical parameter for selecting the emulsifier used for the emulsion polymerization containing water-soluble monomers. The available method for determining emulsifier system is still directly by the stability observation of the polymerization runs. The increase of functional monomer HEMA and DMAEMA content is beneficial to polymerization stability. The decrease of the polymerization temperature and the reduction of the feeding rate of the emulsified monomers are favorable to the stability of polymerization The stability of batch polymerization is inferior to that of semi-continuous polymerization for this system. The increase of the emulsifier concentration will improve the stability of polymerization and uniform the particle size.
IT 72122-73-7P, Butyl acrylate-dimethylaminoethyl

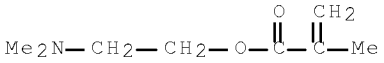
methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer (stability of emulsion copolymn. of acrylic monomers containing amino and hydroxyl groups)

RN 72122-73-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

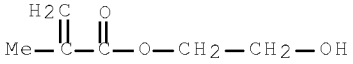
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



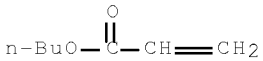
CM 2

CRN 868-77-9
CMF C6 H10 O3



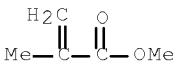
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 80-62-6
CMF C5 H8 O2



CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 35
IT Emulsifying agents
(effect on stability of emulsion copolymn. of acrylic monomers containing amino and hydroxyl groups)
IT 72122-73-7P, Butyl acrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer
(stability of emulsion copolymn. of acrylic monomers containing amino and hydroxyl groups)

L50 ANSWER 34 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:701705 HCAPLUS Full-text
DOCUMENT NUMBER: 127:307807
ORIGINAL REFERENCE NO.: 127:60211a,60214a
TITLE: Emulsion polymerization composition for impregnation of paper for increased strength
INVENTOR(S): Watanabe, Minoru; Yamaguchi, Yasuhiro; Tsukiyama, Fumitoshi
PATENT ASSIGNEE(S): Showa Highpolymer Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09279084	A	19971028	JP 1996-118413 <--	19960416
PRIORITY APPLN. INFO.:			JP 1996-118413 <--	19960416

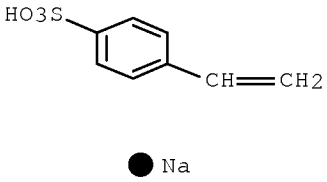
ED Entered STN: 07 Nov 1997
AB Title composition providing good dry and wet tensile strength and folding endurance is prepared by emulsion polymerization of dialkylaminoalkyl(meth)acrylate 0.1-10, (meth)acrylamide 0.1-30, and itaconic acid 0.1-10% in the presence of nonionic emulsifiers. Thus, a composition (average particle 0.19 μm, average viscosity 141 cP) contains emulsion-polymerized Na p-styrenesulfonate-diethylaminoethyl methacrylate-methacrylamide-itaconic acid-Bu methacrylate-Me methacrylate-Et methacrylate-Et acrylate copolymer neutralized by NH3.
IT 197450-79-6P 197450-80-9P
(paper impregnation emulsions for improved wet and dry strength and folding endurance)
RN 197450-79-6 HCAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-methyl-2-propenoate, 2-(diethylamino)ethyl 2-methyl-2-propenoate, ethyl 2-methyl-2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide and sodium 4-ethenylbenzenesulfonate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 198487-66-0
CMF (C10 H19 N O2 . C8 H14 O2 . C8 H8 O3 S . C6 H10 O2 . C5 H8 O2 . C5 H8 O2 . C5 H6 O4 . C4 H7 N O . Na)x
CCI PMS

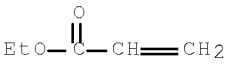
CM 2

CRN 2695-37-6
CMF C8 H8 O3 S . Na



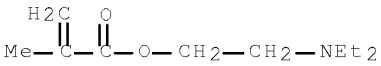
CM 3

CRN 140-88-5
CMF C5 H8 O2



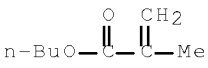
CM 4

CRN 105-16-8
CMF C10 H19 N O2



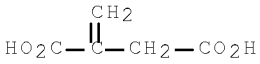
CM 5

CRN 97-88-1
CMF C8 H14 O2



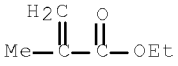
CM 6

CRN 97-65-4
CMF C5 H6 O4



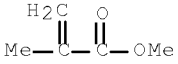
CM 7

CRN 97-63-2
CMF C6 H10 O2



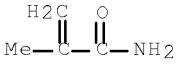
CM 8

CRN 80-62-6
CMF C5 H8 O2



CM 9

CRN 79-39-0
CMF C4 H7 N O



RN 197450-80-9 HCAPLUS
CN Butanedioic acid, methylene-, polymer with butyl 2-methyl-2-propenoate, 2-(diethylamino)ethyl 2-methyl-2-propenoate, ethyl 2-methyl-2-propenoate, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenamide and sodium 4-ethenylbenzenesulfonate, ammonium salt (9CI) (CA INDEX NAME)

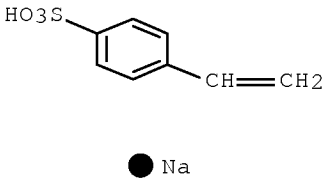
CM 1

CRN 198487-67-1
CMF (C10 H19 N O2 . C8 H14 O2 . C8 H8 O3 S . C6 H10 O3 . C6 H10 O2 . C5 H8 O2 . C5 H8 O2 . C5 H6 O4 . C4 H7 N O . Na)x

CCI PMS

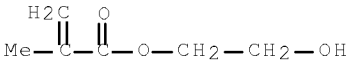
CM 2

CRN 2695-37-6
CMF C8 H8 O3 S . Na



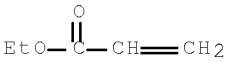
CM 3

CRN 868-77-9
CMF C6 H10 O3



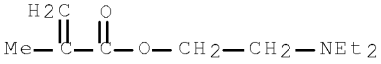
CM 4

CRN 140-88-5
CMF C5 H8 O2



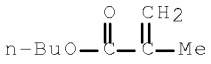
CM 5

CRN 105-16-8
CMF C10 H19 N O2



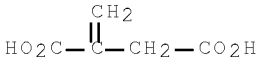
CM 6

CRN 97-88-1
CMF C8 H14 O2



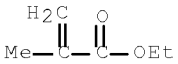
CM 7

CRN 97-65-4
CMF C5 H6 O4



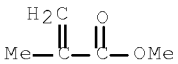
CM 8

CRN 97-63-2
CMF C6 H10 O2



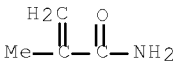
CM 9

CRN 80-62-6
CMF C5 H8 O2



CM 10

CRN 79-39-0
CMF C4 H7 N O



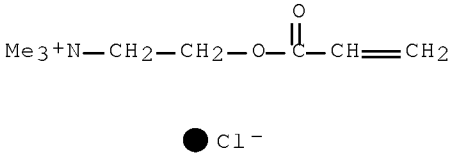
IC ICM C09D133-08
ICS C08F002-30; D21H019-20; C09D133-08; C09D133-14; C09D133-26; C09D135-00; C09D125-18
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 43
IT Emulsifying agents
Paper
(paper impregnation emulsions for improved wet and dry strength and folding endurance)
IT 197450-79-6P 197450-80-9P
(paper impregnation emulsions for improved wet and dry strength and folding endurance)

L50 ANSWER 35 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1996:156957 HCAPLUS Full-text
DOCUMENT NUMBER: 124:317989
ORIGINAL REFERENCE NO.: 124:58993a,58996a
TITLE: Synthesis and properties of fluoroalkylated 2-acryloxyethyltrimethylammonium chloride oligomers
AUTHOR(S): Sawada, Hideo; Katayama, Shinsuke; Oue, Masatoshi; Kawase, Tokuzo; Hayakawa, Yoshio; Baba, Masanori; Tomita, Toshio; Mitani, Motohiro
CORPORATE SOURCE: Dep. Chem., Nara Natl. Coll. Technol., Nara, 639-11, Japan
SOURCE: Nihon Yukagakkaishi (1996), 45(2), 161-9
CODEN: NIYUFC; ISSN: 1341-8327
PUBLISHER: Nihon Yukagaku Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
ED Entered STN: 19 Mar 1996
AB New fluoroalkylated oligomers with carbon-carbon bonds and containing trimethylammonium units were prepared under very mild conditions by reactions of fluoroalkanoyl peroxides as key materials with 2-acryloxyethyltrimethylammonium chloride. The oligomers were soluble in water, methanol, ethanol and DMSO. Fluoroalkanoyl peroxides were also used to prepare fluoroalkylated co-oligomers containing trimethylammonium units by co-oligomerization with co-monomers such as trimethylvinylsilane, Me methacrylate, Et methacrylate and Bu methacrylate. The co-oligomers were soluble, as well, in not only polar solvents such as water, methanol and ethanol but non-polar aromatic solvents, such as benzene and toluene. Fluoroalkylated oligomers containing trimethylammonium units could reduce the surface tension of water to 10 mN/m, and were applicable to new cationic oligo-surfactants as well as the usual low mol. fluorinated surfactants, even though they were high mol. fluoroalkylated compds. The fluorinated oligomers were inactive toward HIV-1 (human immunodeficiency virus type 1) replication in MT-4 cells. However, they possessed antibacterial activity toward Staphylococcus aureus.
IT 176242-57-2DP, [2-(Acryloyloxy)ethyl]trimethylammonium chloride-butyl methacrylate copolymer, reaction products with fluoroalkanoyl peroxide
(oligomeric; synthesis and properties of fluoroalkylated acryloxyethyltrimethylammonium chloride oligomers)
RN 176242-57-2 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

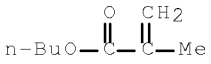
CM 1

CRN 44992-01-0
CMF C8 H16 N O2 . Cl



CM 2

CRN 97-88-1
CMF C8 H14 O2



CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 46, 63

IT Surfactants
(cationic, synthesis and properties of fluoroalkylated acryloxyethyltrimethylammonium chloride oligomer surfactants)

IT 67183-96-4DP, reaction products with fluoroalkanoyl peroxide 121035-47-0DP, reaction products with fluoroalkanoyl peroxide 176242-57-2DP, [2-(Acryloyloxy)ethyl]trimethylammonium chloride-butyl methacrylate copolymer, reaction products with fluoroalkanoyl peroxide 176242-58-3DP, [2-(Acryloyloxy)ethyl]trimethylammonium chloride-trimethylvinylsilane copolymer, reaction products with fluoroalkanoyl peroxide 176242-59-4P, [2-(Acryloyloxy)ethyl]trimethylammonium chloride-ethyl methacrylate copolymer
(oligomeric; synthesis and properties of fluoroalkylated acryloxyethyltrimethylammonium chloride oligomers)

L50 ANSWER 36 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:673885 HCAPLUS Full-text
DOCUMENT NUMBER: 123:97818
ORIGINAL REFERENCE NO.: 123:17191a,17194a
TITLE: Cleansing solution for electrophotographic apparatus
INVENTOR(S): Suzuki, Nobuo
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

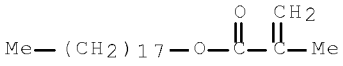
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06295143	A	19941021	JP 1993-82064 <--	19930408
PRIORITY APPLN. INFO.:			JP 1993-82064 <--	19930408

ED Entered STN: 14 Jul 1995
AB The title cleansing solution contains a nonaq. solvent of elec. resistance ≥109 Ω.cm and dielec. constant ≤3.5 and a graft copolymer soluble in the above solvent. The types of the graft copolymer are also claimed.
IT 138114-66-6P
(prepared for electrophotog. apparatus cleansing solution)
RN 138114-66-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(diethylamino)ethyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

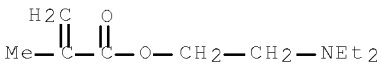
CM 1

CRN 32360-05-7
CMF C22 H42 O2



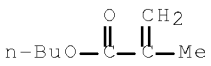
CM 2

CRN 105-16-8
CMF C10 H19 N O2



CM 3

CRN 97-88-1
CMF C8 H14 O2



IC ICM G03G021-00
ICS G03G015-10
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST cleansing soln electrophotog app nonaq solvent; graft copolymer cleansing soln
IT Electrophotography
(apparatus, cleansing solution containing nonaq. solvent and graft copolymer for)
IT 25639-21-8DP, Octadecyl methacrylate graft homopolymer, carboxy-terminated 25719-52-2DP, polar group-terminated 124973-68-8DP, Octadecyl methacrylate-styrene graft copolymer, carboxy-terminated 124973-68-8P, Octadecyl methacrylate-styrene graft copolymer 138114-17-7P, Dodecyl methacrylate-methacrylic acid graft copolymer 138114-18-8P 138114-19-9P 138114-20-2P 138114-21-3P 138114-22-4P 138114-23-5P 138114-49-5DP, carboxy-terminated 138114-50-8DP, Methyl methacrylate-octadecyl methacrylate graft copolymer, carboxy-terminated 138114-50-8DP, Methyl methacrylate-octadecyl methacrylate graft copolymer, polar group-terminated 138114-50-8P, Methyl methacrylate-octadecyl methacrylate graft copolymer 138114-51-9DP, carboxy-terminated 138114-51-9P 138114-52-0DP, carboxy-terminated 138114-52-0P, Acrylonitrile-octadecyl methacrylate graft copolymer 138114-53-1DP, carboxy-terminated 138114-53-1P 138114-54-2DP, carboxy-terminated 138114-54-2P 138114-56-4DP, carboxy-terminated 138114-56-4P 138114-57-5DP, carboxy-terminated 138114-57-5P 138114-58-6DP, carboxy-terminated 138114-58-6P 138114-59-7DP, Butyl methacrylate-octadecyl methacrylate graft copolymer, polar group-terminated 138114-60-0DP, Butyl methacrylate-dodecyl methacrylate graft copolymer, polar group-terminated 138114-61-1DP, polar group-terminated 138114-63-3P 138114-64-4P 138114-65-5P 138114-66-6P 138114-67-7P, 2-Hydroxyethyl methacrylate-methyl methacrylate-octadecyl methacrylate graft copolymer 138114-68-8P 138232-63-0DP, carboxy-terminated 138232-63-0P, Dodecyl methacrylate-methyl methacrylate graft copolymer 138537-63-0P 142245-67-8DP, carboxy-terminated 142245-67-8P 142245-68-9P, Lauryl methacrylate-styrene graft copolymer 142245-69-0P, 2-Ethylhexyl methacrylate-styrene graft copolymer 142293-43-4P, 2-Ethylhexyl methacrylate-methyl methacrylate graft copolymer
(prepared for electrophotog. apparatus cleansing solution)
IT 25639-21-8DP, Octadecyl methacrylate homopolymer, carboxy-terminated, ester with hydroxy-terminated methacrylates 112955-45-0P 112955-56-3P 114512-15-1P 137646-74-3DP, reaction product with acrylic chloride 139104-78-2P 139104-81-7P 139104-83-9P 139104-86-2P 139104-87-3P 139104-88-4P 139104-90-8P 139104-94-2P 139104-95-3P 139104-96-4P 139104-98-6P 139104-99-7P 139105-01-4P 139105-03-6P 139105-04-7P 139105-07-0P 139105-08-1P 139105-10-5P 139105-12-7P 141348-56-3P 141349-00-0P 141349-03-3P 141349-31-7P 141349-35-1P 141440-78-0P 142297-55-0P 151064-78-7P 165035-77-8P 165035-78-9P 165035-79-0P 165035-80-3P 165035-81-4P
(prepared for forming graft copolymer for electrophotog. apparatus cleansing solution)

L50 ANSWER 37 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:231058 HCAPLUS Full-text
DOCUMENT NUMBER: 122:10969
ORIGINAL REFERENCE NO.: 122:2407a,2410a

TITLE: Large-dimension emulsion polymer particles and their manufacture and use
INVENTOR(S): Chiou, Shang Jaw; Li Sheng, Miao Hsun; Hook, John William, III; Stevens, Travis Edward
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 597567	A2	19940518	EP 1993-305385 <--	19930708
EP 597567	A3	19950315		
EP 597567	B1	19990818		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5369163	A	19941129	US 1992-975746 <--	19921113
CA 2093483	A1	19940514	CA 1993-2093483 <--	19930406
JP 06199914	A	19940719	JP 1993-106854 <--	19930507
JP 3248599	B2	20020121		
BR 9302021	A	19940517	BR 1993-2021 <--	19930520
AT 183518	T	19990915	AT 1993-305385 <--	19930708
ES 2137971	T3	20000101	ES 1993-305385 <--	19930708
SG 73370	A1	20000620	SG 1996-2383 <--	19930708
NO 9302523	A	19940516	NO 1993-2523 <--	19930712
IL 106312	A	19970930	IL 1993-106312 <--	19930712
HU 66123	A2	19940928	HU 1993-2009 <--	19930713
FI 9303196	A	19940514	FI 1993-3196 <--	19930714
AU 9342056	A	19940526	AU 1993-42056 <--	19930719
AU 670944	B2	19960808		
ZA 9305265	A	19940513	ZA 1993-5265 <--	19930721
RU 2133756	C1	19990727	RU 1993-51214 <--	19931110
CN 1089621	A	19940720	CN 1993-121231 <--	19931113
CN 1066157	C	20010523		
CN 1270176	A	20001018	CN 2000-100979 <--	20000114

PRIORITY APPLN. INFO.: US 1992-975746 A 19921113 <--

ED Entered STN: 08 Dec 1994

AB Large-dimension particles with shapes varying from egg-like to nearly spherical are manufactured by emulsion-polymerization of ≥1 ethylenically

unsatd. monomer in the presence of a 0.5-50% a solubilized, amphiphilic, hydrophobic-hydrophilic-balanced, alkali- or acid-soluble resin as dispersant and optionally, an organic additive under such conditions that the amphiphilic stabilizer remains in solution and addition of more monomer in a controlled way. The particles are useful as reinforcing additives for coatings, moldings, potting compns., adhesives, and cementitious compns. Thus, an emulsion containing Bu acrylate (I), water, triethanolammonium dodecylbenzenesulfonate, Me methacrylate (II), and n-dodecanethiol was fed 1.5 h simultaneously with an aqueous solution containing tert-Bu hydroperoxide and (NH4)2S2O8, and an aqueous NaHSO3 solution to an emulsion containing 1:1:1 (weight ratio) I-methacrylic acid-II copolymer, triethanolamine solubilizer, FeSO4, and versene at 68° to give rod-shaped particles with diameter 0.8 μm and length 50-70 μm.

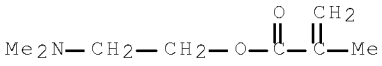
IT 35166-02-0P, Butyl acrylate-dimethylaminoethyl methacrylate-methyl methacrylate copolymer
(large-dimension emulsion polymer particles)

RN 35166-02-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

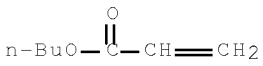
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



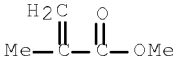
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



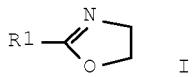
IC ICM C08F002-24
ICS C09D157-00
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37, 42
IT Dispersing agents
(amphiphilic acrylic polymers; large-dimension emulsion polymer particle manufacture)
IT 9003-49-0P, Poly(butyl acrylate) 9003-53-6P, Polystyrene 9010-88-2P, Ethyl acrylate-methyl methacrylate copolymer 25067-01-0DP, Butyl acrylate-vinyl acetate copolymer, hydrolyzed 25067-01-0P, Butyl acrylate-vinyl acetate copolymer 25067-63-4DP, Methyl acrylate-vinyl acetate copolymer, hydrolyzed 25153-49-5P, Ethyl acrylate-glycidyl methacrylate-methyl methacrylate copolymer 25190-97-0DP, Ethyl acrylate-vinyl acetate copolymer, hydrolyzed 25567-76-4P, Acrylonitrile-butyl acrylate copolymer 25767-47-9P, Butyl acrylate-styrene copolymer 25852-37-3P, Butyl acrylate-methyl methacrylate copolymer 25951-39-7P, Butyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer 26353-42-4P, Butyl acrylate-ethyl acrylate copolymer 29354-76-5P 31326-18-8P, Butyl acrylate-ethyl acrylate-itaconic acid copolymer 35166-02-0P, Butyl acrylate-dimethylaminoethyl methacrylate-methyl methacrylate copolymer 36182-73-7P 39317-52-7P, Divinylbenzene-vinyltoluene copolymer 55567-73-2P 56848-73-8P, Acrylamide-butyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer 67785-43-7P 87889-52-9P 159487-69-1P
(large-dimension emulsion polymer particles)

L50 ANSWER 38 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:580491 HCAPLUS Full-text
DOCUMENT NUMBER: 121:180491
ORIGINAL REFERENCE NO.: 121:32795a,32798a
TITLE: Preparation of aqueous polymer dispersions
INVENTOR(S): Namura, Ichiro; Minami, Kenji; Izumibayashi, Masuji
PATENT ASSIGNEE(S): Nippon Catalytic Chem Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06145210	A	19940524	JP 1992-293469 <--	19921030

PRIORITY APPLN. INFO.: JP 1992-293469 <-- 19921030

ED Entered STN: 15 Oct 1994
GI



I

AB In preparation of the dispersions by emulsion or suspension polymerization of unsatd. monomers in aqueous media by using dispersion stabilizers, oxazoline copolymers obtained from oleophilic oxazoline derivs. (I; R1 = cyclohexyl, 2-cyclohexenyl, 3-cyclohexenyl) and hydrophilic oxazoline compds. are used as the dispersion stabilizers. Thus, polymerizing 386.4 parts styrene and 213.6 parts 2-ethylhexyl acrylate at 80° in an aqueous solution containing 36 parts block copolymer [prepared from 10 mol 2-methyl-2-oxazoline and 0.75 mol 2-(3'-cyclohexenyl)-2-oxazoline] in the presence of K2S2O8 gave a polymer dispersion. An aqueous composition containing the dispersion formed a coating with good adhesion to steel, glass, and PET plates and water resistance.

IT 157797-87-0P
(preparation of, oxazoline polymer dispersion stabilizers in, for toners)

RN 157797-87-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with diethenylbenzene, 2-(diethylamino)ethyl 2-methyl-2-propenoate, ethenylbenzene and sodium ethenylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 27457-28-9
CMF C8 H8 O3 S . Na
CCI IDS

D1—CH═CH2

D1—SO3H

● Na

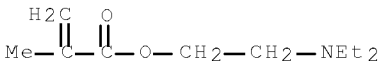
CM 2

CRN 1321-74-0
CMF C10 H10
CCI IDS

2 [D1—CH═CH2]

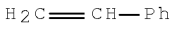
CM 3

CRN 105-16-8
CMF C10 H19 N O2



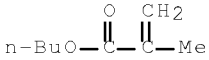
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

CRN 97-88-1
CMF C8 H14 O2



IC ICM C08F002-22
ICS C08F002-18
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 42, 46
IT Surfactants
(oxazoline polymers, in manufacture of polymer aqueous dispersions, for water-resistant coatings)
IT 25767-47-9P, Butyl acrylate-styrene copolymer 157797-87-0P
(preparation of, oxazoline polymer dispersion stabilizers in, for toners)

L50 ANSWER 39 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:436303 HCAPLUS Full-text
DOCUMENT NUMBER: 121:36303
ORIGINAL REFERENCE NO.: 121:6730h,6731a
TITLE: Synthesis and surface activity of novel ABA type triblock cationic amphiphiles
AUTHOR(S): Oh, Jae Min; Lee, Hyung Jong; Shim, Hong Ku; Kwon, Sam
CORPORATE SOURCE: Dep. Chem., Korea Adv. Inst. Sci. Technol., Taejon, 305-701, S. Korea

SOURCE: Polymer Bulletin (Berlin, Germany) (1994), 32(2), 149-54
CODEN: POBUDR; ISSN: 0170-0839
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 23 Jul 1994

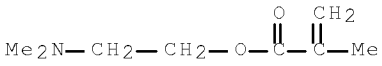
AB Different amphiphilic triblock copolymers of Bu methacrylate (BMA) and 2-methacryloyloxyethyltrimethyl ammonium iodide were prepared by the reaction of precursor polymer and iodomethane. The precursor polymers were obtained by group-transfer polymerization (GTP) of BMA with 2-(dimethylamino)ethyl methacrylate (DMAEMA) using a difunctional initiator at room temperature Their mol. weight and composition could be controlled by regulating the monomer to initiator ratio and the feed ratio of two monomers. From quant. quaternization of poly(DMAEMA) segments of precursor polymers by iodomethane, the target polymers were prepared These amphiphilic triblock copolymers exhibited excellent surface activity and lowered the surface tension of their aqueous solns. The lowest surface tension (γ) value reached to 27.4 dyn/cm.

IT 115468-45-6P, Butyl methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer 156120-02-4P, Butyl methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer methyl iodide salt 830334-77-5P 836606-96-3P
(triblock, preparation and characterization and quaternization of)

RN 115468-45-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, block (CA INDEX NAME)

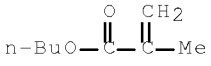
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

CRN 97-88-1
CMF C8 H14 O2



RN 156120-02-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, block, compd. with iodomethane (9CI) (CA INDEX NAME)

CM 1

CRN 74-88-4

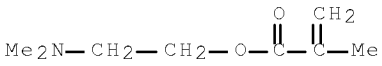
CMF C H3 I

CM 2

CRN 115468-45-6
CMF (C8 H15 N O2 . C8 H14 O2)x
CCI PMS

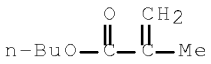
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

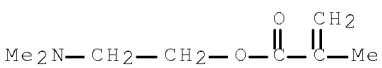
CRN 97-88-1
CMF C8 H14 O2



RN 830334-77-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, triblock (CA INDEX NAME)

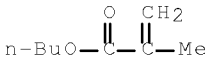
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

CRN 97-88-1
CMF C8 H14 O2



RN 836606-96-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, triblock, compd. with iodomethane (9CI) (CA INDEX NAME)

CM 1

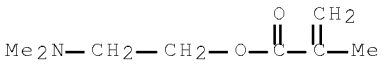
CRN 74-88-4
CMF C H3 I

CM 2

CRN 830334-77-5
CMF (C8 H15 N O2 . C8 H14 O2)x
CCI PMS

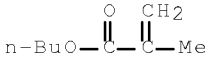
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 97-88-1
CMF C8 H14 O2

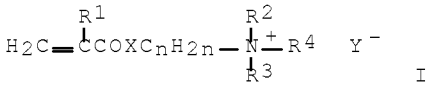


CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 36, 45
IT Surfactants
(amphiphilic, Bu methacrylate-2-(dimethylamino)ethyl methacrylate triblock copolymer and its quaternized derivative)
IT 115468-45-6P, Butyl methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer 156120-02-4P, Butyl methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer methyl iodide salt 830334-77-5P 836606-96-3P
(triblock, preparation and characterization and quaternization of)

L50 ANSWER 40 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1993:203378 HCAPLUS Full-text
DOCUMENT NUMBER: 118:203378
ORIGINAL REFERENCE NO.: 118:34724h,34725a
TITLE: Electrically conductive coatings and coated fabrics
INVENTOR(S): Mitsutake, Tatsuo; Narisawa, Shizuo
PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04309510	A	19921102	JP 1991-72839 <--	19910405
JP 3341084	B2	20021105		
PRIORITY APPLN. INFO.:			JP 1991-72839 <--	19910405

ED Entered STN: 14 May 1993
GI



I

AB Transparent title coatings, useful for improving properties of fabrics, comprise emulsions of copolymers with glass transition temperature (Tg) ≤-15° composed of 1-50% I (R1 = H, Me; R2, R3 = C1-4 alkyl; R4 = H, C1-2 alkyl; X = O, NH; Y- = anion; n = 2-5) and 50-90% vinyl monomers from N-methylol(meth)acrylamide, N-methoxymethyl(meth)acrylamide, N-ethoxymethyl(meth)acrylamide, N-butoxymethyl(meth)acrylamide, and N-isobutoxymethyl(meth)acrylamide. Thus, polyester cloth coated with a composition of Bu acrylate-methacryloyloxyethyltrimethylammonium chloride-N-methylolacrylamide-styrene (68:20:2:10) copolymer with Tg -34° and 2-hydroxyethylcellulose (thickener) and dried at 120° showed elec. conductivity 4.1 + 107 Ω at 30% relative humidity and 3.2 + 106 Ω at 60% relative humidity, pull-out strength (JIS L 1201) 3.5 kg/pile, and good wear resistance, handle, antiblocking property, and adhesion to plastics.
IT 147232-97-1P 147232-98-2P 147232-99-3P

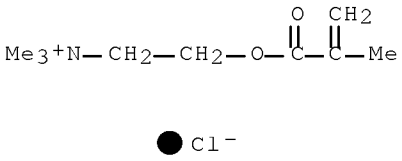
(coatings, preparation of, elec. conductive, transparent, for fabrics)

RN 147232-97-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate, ethenylbenzene and N-(hydroxymethyl)-2-propenamide (CA INDEX NAME)

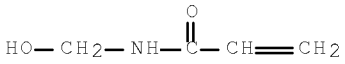
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



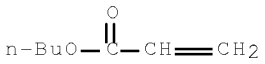
CM 2

CRN 924-42-5
CMF C4 H7 N O2



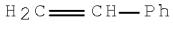
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

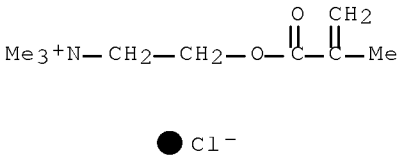
CRN 100-42-5
CMF C8 H8



RN 147232-98-2 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, N-(hydroxymethyl)-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

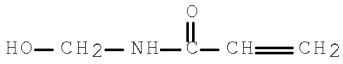
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



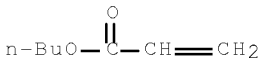
CM 2

CRN 924-42-5
CMF C4 H7 N O2



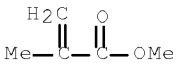
CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

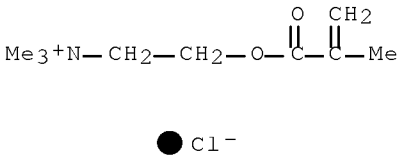
CRN 80-62-6
CMF C5 H8 O2



RN 147232-99-3 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with butyl 2-propenoate and ethenylbenzene (CA INDEX NAME)

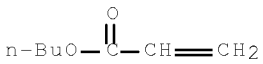
CM 1

CRN 5039-78-1
CMF C9 H18 N O2 . Cl



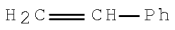
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 100-42-5
CMF C8 H8



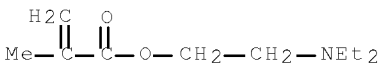
IC ICM C08F220-34
ICS C08F220-60; C08F246-00; C08L033-14; C08L033-26; D01F001-09; D01F006-36
ICA C07C219-08; C07C233-38
CC 76-2 (Electric Phenomena)
Section cross-reference(s): 35, 40, 42
ST fabric coating elec conductive transparent; acryloyloxyalkyltrialkylammonium salt copolymer conductive coating
IT Textiles
(coatings for, elec. conductive, transparent)
IT Polyester fibers, miscellaneous
(fabrics, coatings for, elec. conductive, transparent)

IT Coating materials
(elec. conductive, transparent, containing copolymers of quaternary ammonium-containing acrylate esters, for fabrics)
IT 147212-15-5P 147232-97-1P 147232-98-2P 147232-99-3P
(coatings, preparation of, elec. conductive, transparent, for fabrics)

L50 ANSWER 41 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1993:39498 HCAPLUS Full-text
DOCUMENT NUMBER: 118:39498
ORIGINAL REFERENCE NO.: 118:7217a,7220a
TITLE: Emulsion copolymerization of small-particle size, high-molecular-weight poly(alkylaminoalkyl methacrylate-co-alkyl methacrylate) latexes
AUTHOR(S): Vanderhoff, J. W.; Hong, S. H.; Hu, M. R.; Park, J. M.; Segall, I.; Wang, S.; Yue, H. J.
CORPORATE SOURCE: Emulsion Polym. Inst., Lehigh Univ., Bethlehem, PA, 18015, USA
SOURCE: ACS Symposium Series (1992), 492(Polym. Latexes), 216-33
CODEN: ACSMC8; ISSN: 0097-6156
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 03 Feb 1993
AB The compositionally homogeneous viscoelastic title copolymers were prepared by semicontinuous emulsion polymerization The results were evaluated in terms of the expected proportionalities of the rate of polymerization to the number of polymer particles and the mol. weight to the number of particles relative to the rate of radical generation. The rates of polymerization were determined gravimetrically or by gas chromatog. The average particle sizes were inordinately small (18-86 nm), and the mol. wts. were typically ≥106. The small particle sizes were first attributed to the high emulsifier concentration and excellent stability of the latexes, and later to the failure of the latex particles containing only 8-11 polymer mols. to grow further. The high mol. wts. were attributed to the large number of particles. The copolymer composition, mol. weight, solubility, and viscoelastic properties in solution were determined, and the effects of the type of catalyst (water- or oil-soluble), polymerization temperature, emulsifier type and concentration, and monomer feed were studied. Anal. of the homogeneity of the copolymers by 13C-NMR and FTIR spectroscopy, DSC, and TEM gave conflicting results.
IT 129698-94-8P, Diethylaminoethyl methacrylate-isobutyl methacrylate copolymer
(preparation of, by emulsion polymerization, particle size and mol. weight in
relation to)
RN 129698-94-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with 2-methylpropyl 2-methyl-2-propenoate (CA INDEX NAME)

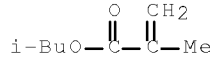
CM 1

CRN 105-16-8
CMF C10 H19 N O2



CM 2

CRN 97-86-9
CMF C8 H14 O2



CC 35-4 (Chemistry of Synthetic High Polymers)
IT Emulsifying agents
(for semicontinuous emulsion polymerization of alkylaminoalkyl methacrylates with alkyl methacrylates)
IT 25119-82-8P, Diethylaminoethyl methacrylate polymer 26716-20-1P 27027-16-3P, Diethylaminoethyl methacrylate-methyl methacrylate copolymer 40008-96-6P, tert-Butylaminoethyl methacrylate-isobutyl methacrylate copolymer 53489-10-4P 90667-56-4P 129698-94-8P, Diethylaminoethyl methacrylate-isobutyl methacrylate copolymer
(preparation of, by emulsion polymerization, particle size and mol. weight in relation to)

L50 ANSWER 42 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1992:48849 HCAPLUS Full-text
DOCUMENT NUMBER: 116:48849
ORIGINAL REFERENCE NO.: 116:8283a,8286a
TITLE: Charge-controlled positively charging toner containing vinyl resin particle on its surface
INVENTOR(S): Maruta, Masayuki; Kida, Katsuaki
PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03132766	A	19910606	JP 1989-272059 <--	19891019
PRIORITY APPLN. INFO.:			JP 1989-272059 <--	19891019

ED Entered STN: 08 Feb 1992
AB The title toner is prepared by addition, to the surface of a colored particle comprising a binder resin, a coloring agent, and a charge-controlling agent, of a resin particle (average particle size 0.02-0.1 μm) which is prepared by emulsion polymerization of ≥1 α,β-unsatd. vinyl monomers in an aqueous medium in the presence of a higher fatty acid alkali metal salt surfactant and a polymerization initiator having CO2H (salt) and the charge of the colored particle is higher than that of the toner after the addition The toner shows good flow, chargeability, and durability. Thus, Me methacrylate and styrene

were polymerized in an aqueous medium containing Na stearate and 4,4'-azobis(4-cyanovaleric acid) and spray-dried to give a resin particle. The particle was mixed with a colored particle prepared from Bu methacrylate-dimethylaminoethyl methacrylate-styrene copolymer, Bu methacrylate-styrene copolymer, polypropylene wax, and C black to give a toner, which was mixed with a ferrite carrier to give a developer.

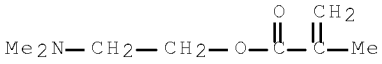
IT 81094-87-3P
(preparation of, charge-controlled binder, for electrophotog. developer toner, surface additive for, emulsion-polymerized vinyl resin as)

RN 81094-87-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and ethenylbenzene (CA INDEX NAME)

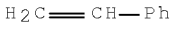
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



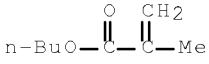
CM 2

CRN 100-42-5
CMF C8 H8



CM 3

CRN 97-88-1
CMF C8 H14 O2



IC ICM G03G009-08

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35

IT Surfactants
(alkali metal higher fatty acid salt, for emulsion polymerization, for vinyl resin surface additive, for electrophotog. developer toner)

IT 81094-87-3P

(preparation of, charge-controlled binder, for electrophotog. developer toner, surface additive for, emulsion-polymerized vinyl resin as)

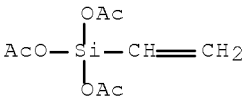
L50 ANSWER 43 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1991:45157 HCAPLUS Full-text
DOCUMENT NUMBER: 114:45157
ORIGINAL REFERENCE NO.: 114:7841a,7844a
TITLE: Emulsion polymerization of vinyl monomers
INVENTOR(S): Kawakami, Susumu; Sakai, Yutaka; Kariya, Toshe; Soda, Yoshihiro; Hata, Hironori
PATENT ASSIGNEE(S): Natoco Paint Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02178301	A	19900711	JP 1988-334354 <--	19881228
JP 2734046	B2	19980330		
PRIORITY APPLN. INFO.:			JP 1988-334354 <--	19881228

ED Entered STN: 09 Feb 1991
AB Monomers containing silyl-reactive vinyl monomers are emulsion-polymerized in an aqueous solution of water-soluble hydrolyzable silyl-containing synthetic resins. The polymers are crosslinked by the reactive emulsifiers to form alkali-, solvent-, and water-resistant films with good adhesion when applied to substrates. Thus, Et acrylate, Me methacrylate, styrene, and vinyltrimethoxysilane were emulsion-polymerized at 80° in the presence of NH3-neutralized Bu acrylate-methacrylic acid-γ-methacryloyloxypropyltrimethoxysilane-Me methacrylate-styrene copolymer (emulsifier) and K2S2O8 to give a polymer emulsion with solids 50% and viscosity 250 cP. The polymer showed Tg 46° and min. film-forming temperature (MFT) 7°, formed an acetone-, alkali-, and water-resistant film on glass, and showed good adhesion when applied to a phosphate-treated steel sheet while a Bu acrylate-Me methacrylate-γ- methacryloyloxypropyltrimethoxysilane-styrene copolymer prepared in the presence of Eleminol JS-2 (polymerizable surfactant) showed Tg 38° and MFT 37° and formed a film which whitened by H2O or Me2CO.
IT 131406-17-2DP, polymers with silyl reactive group-containing polymers
(preparation of, coatings, alkali- and solvent- and water-resistant)
RN 131406-17-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, ethenylsilylidyne triacetate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-propenoate (9CI) (CA INDEX NAME)

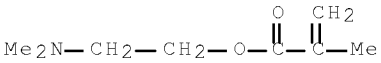
CM 1

CRN 4130-08-9
CMF C8 H12 O6 Si



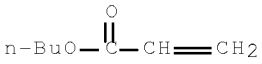
CM 2

CRN 2867-47-2
CMF C8 H15 N O2



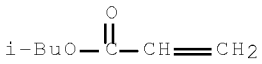
CM 3

CRN 141-32-2
CMF C7 H12 O2



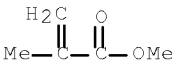
CM 4

CRN 106-63-8
CMF C7 H12 O2



CM 5

CRN 80-62-6
CMF C5 H8 O2



IC ICM C08F002-22
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35
IT Emulsifying agents
(reactive, water-soluble silyl-reactive polymers, for emulsion polymerization
of vinyl monomers)
IT 67783-85-1DP, polymers with silyl-containing polymer emulsifiers
127475-66-5DP, polymers with silyl reactive group-containing polymers
131406-17-2DP, polymers with silyl reactive group-containing polymers 131431-00-0DP, polymers with silyl-containing polymer emulsifiers
(preparation of, coatings, alkali- and solvent- and water-resistant)

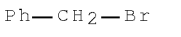
L50 ANSWER 44 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:140052 HCAPLUS Full-text
DOCUMENT NUMBER: 112:140052
ORIGINAL REFERENCE NO.: 112:23689a,23692a
TITLE: Preparation of ionic acrylic block polymers as dispersants for pigments
INVENTOR(S): West, Michael Wendell Johnson
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: Braz. Pedido PI, 21 pp.
CODEN: BPXXDX
DOCUMENT TYPE: Patent
LANGUAGE: Portuguese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BR 8800898	A	19890926	BR 1988-898 <--	19880302
AU 8812016	A	19890824	AU 1988-12016 <--	19880222
AU 604844	B2	19910103		
PRIORITY APPLN. INFO.:			BR 1988-898 <--	19880302

ED Entered STN: 13 Apr 1990
AB Title copolymers comprise (alkoxy)alkyl (meth)acrylate blocks [number-average mol. weight (Mn) 200-10,000] bearing the pendant ionic groups AR1mX [A = N, P, S; R1 = (alkoxy)alkyl, (substituted) Ph; X = halogen, organic acid base salt group; m = 3 if A = N or P, 2 if A = S] and (alkoxy)alkyl (meth)acrylate blocks (Mn 500-100,000) without pendant groups. Me methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer benzyl chloride salt was an effective dispersant for pigments.
IT 125975-91-9P 125975-92-0P 125975-95-3P
125975-97-5P
(dispersants for pigments, manufacture of)
RN 125975-91-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-ethyl-2-propenoate and methyl 2-methyl-2-propenoate, block, compd. with (bromomethyl)benzene (9CI) (CA INDEX NAME)

CM 1

CRN 100-39-0
CMF C7 H7 Br

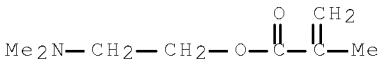


CM 2

CRN 125975-90-8
CMF (C8 H15 N O2 . C8 H14 O2 . C5 H8 O2)x
CCI PMS

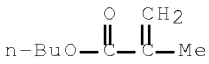
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



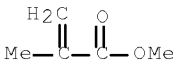
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

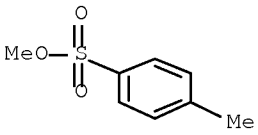
CRN 80-62-6
CMF C5 H8 O2



RN 125975-92-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, block, compd. with methyl 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 80-48-8
CMF C8 H10 O3 S

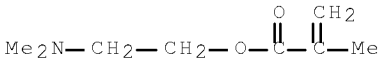


CM 2

CRN 125975-90-8
CMF (C8 H15 N O2 . C8 H14 O2 . C5 H8 O2)x
CCI PMS

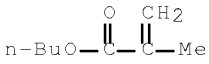
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



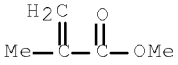
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

CRN 80-62-6
CMF C5 H8 O2



RN 125975-95-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, block, compd. with iodomethane (9CI) (CA INDEX NAME)

CM 1

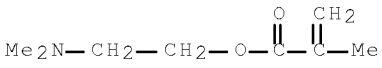
CRN 74-88-4
CMF C H3 I

CM 2

CRN 125975-90-8
CMF (C8 H15 N O2 . C8 H14 O2 . C5 H8 O2)x
CCI PMS

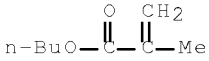
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



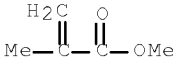
CM 4

CRN 97-88-1
CMF C8 H14 O2



CM 5

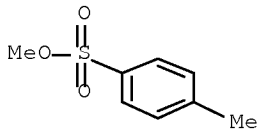
CRN 80-62-6
CMF C5 H8 O2



RN 125975-97-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, block, compd. with methyl 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 80-48-8
CMF C8 H10 O3 S

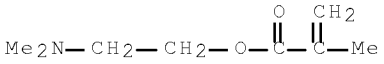


CM 2

CRN 115468-45-6
CMF (C8 H15 N O2 . C8 H14 O2)x
CCI PMS

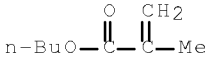
CM 3

CRN 2867-47-2
CMF C8 H15 N O2



CM 4

CRN 97-88-1
CMF C8 H14 O2



IC ICM C08F293-00
CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 42, 46
IT Dispersing agents

(acrylic block polymer quaternary ammonium derivs., for pigments)
IT 125975-91-9P 125975-92-0P 125975-94-2P
125975-95-3P 125975-96-4P 125975-97-5P
(dispersants for pigments, manufacture of)

L50 ANSWER 45 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:39568 HCAPLUS Full-text
DOCUMENT NUMBER: 110:39568
ORIGINAL REFERENCE NO.: 110:6613a,6616a
TITLE: Block copolymer dispersants containing ionic moieties
INVENTOR(S): West, Michael W. J.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

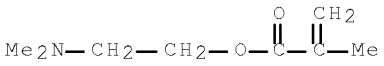
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4755563	A	19880705	US 1986-947319 <--	19861229
CA 1303267	C	19920609	CA 1988-559227 <--	19880218
EP 329873	A1	19890830	EP 1988-301552 <--	19880223
EP 329873	B1	19920930		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
ZA 8801253	A	19891025	ZA 1988-1253 <--	19880223
AT 81139	T	19921015	AT 1988-301552 <--	19880223
ES 2035264	T3	19930416	ES 1988-301552 <--	19880223
JP 01229014	A	19890912	JP 1988-47677 <--	19880302
PRIORITY APPLN. INFO.:			US 1986-947319 <--	19861229
			EP 1988-301552 A <--	19880223

ED Entered STN: 04 Feb 1989
AB The title dispersants which do not require salt forming counterions with affinity to pigments comprise a copolymer of 0.1-50% cationic ammonium, phosphonium, or sulfonium group-containing ethylenically unsatd. monomer blocks (mol weight 200-10,000) and 50-99.9% blocks (mol weight 500-100,000) of CH2:CHCO2R and CH2:CCH3CO2R (R = C1-20 alkyl or C1-20 alkyl ether), prepared by group-transfer polymerization Thus, polymerizing 91.2 g Me methacrylate and 28.9 g N,N-dimethylaminoethyl methacrylate in 3 mL THF in 2 feed streams 20 min apart in the presence of 0.350 mL catalyst containing 1-methoxy-1-trimethylsiloxy-2-methylpropene and tetrabutylammonium 3-chlorobenzoate gave a block copolymer of which 30.69 g (in THF) was alkylated with 3.0 g benzyl chloride and refluxed in 50.5 g iso-PrOH for 3 h, then 5 h to give a block copolymer with tertiary amine content 0.31 mM/g. The above block copolymer had dispersion rating (1 = deflocculated, 4 = flocculated) 1 in MIBK for various standard phthalocyanine pigments.
IT 24938-16-7DP, Butyl methacrylate-dimethylaminoethyl methacrylate-methyl methacrylate copolymer, reaction product with alkylating agent

(preparation of, for pigment dispersing agent)
RN 24938-16-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

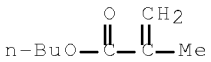
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



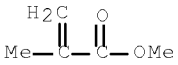
CM 2

CRN 97-88-1
CMF C8 H14 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM C08F293-00
INCL 525287000
CC 35-7 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 42
IT Dispersing agents
(ammonium or sulfonium or phosphonium group-containing block copolymers, manufacture of, for pigments)
IT 74-88-4DP, Iodomethane, reaction product with dimethylaminoethyl methacrylate block copolymer 80-48-8DP, Methyl p-toluenesulfonate, reaction product with dimethylaminoethyl methacrylate block copolymer 100-39-0DP, Benzyl bromide, reaction product with dimethylaminoethyl methacrylate block copolymer 24938-16-7DP, Butyl methacrylate-dimethylaminoethyl methacrylate-methyl methacrylate copolymer, reaction product with alkylating agent 111320-26-4DP, reaction products with benzyl chloride 115489-10-6DP, reaction

product with benzylbromide
(preparation of, for pigment dispersing agent)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

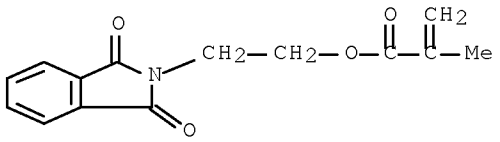
L50 ANSWER 46 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:511101 HCAPLUS Full-text
DOCUMENT NUMBER: 109:111101
ORIGINAL REFERENCE NO.: 109:18531a,18534a
TITLE: Vinyl polymers manufactured by suspension polymerization
INVENTOR(S): Kumagai, Yugo; Moribe, Isamu; Higashida, Osamu
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63068601	A	19880328	JP 1986-211850 <--	19860909
PRIORITY APPLN. INFO.:			JP 1986-211850 <--	19860909

ED Entered STN: 01 Oct 1988
AB Hydroxy and/or imide group-containing vinyl monomers are dispersed in water containing 0.01-0.2% (based on monomers) poly(vinyl alc.) (I) and polymerized with addition >0.2% (total amount, based on the monomers) I after reaching the polymerization temperature Adding of all of I at the beginning of polymerization gives polymers having high content of fines that clog filters. Thus, 75:192:30:3 (monomer feed ratio) 2-hydroxypropyl methacrylate-styrene-Bu acrylate-di-Bu maleate copolymer was prepared
IT 113596-54-6P
(manufacture of, with multistage addition of poly(vinyl alc.) dispersing agents)
RN 113596-54-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with butyl 2-propenoate, 2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl 2-methyl-2-propenoate and ethenylbenzene (9CI) (CA INDEX NAME)

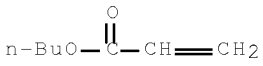
CM 1

CRN 18791-05-4
CMF C14 H13 N O4



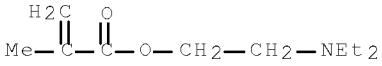
CM 2

CRN 141-32-2
CMF C7 H12 O2



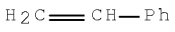
CM 3

CRN 105-16-8
CMF C10 H19 N O2



CM 4

CRN 100-42-5
CMF C8 H8



IC ICM C08F002-20
CC 35-4 (Chemistry of Synthetic High Polymers)
IT Dispersing agents
(poly(vinyl alc.), multistage addition of, in vinyl polymerization)
IT 106646-40-6P 113596-54-6P 116197-23-0P 116197-24-1P
(manufacture of, with multistage addition of poly(vinyl alc.) dispersing agents)

L50 ANSWER 47 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1984:192548 HCAPLUS Full-text
DOCUMENT NUMBER: 100:192548
ORIGINAL REFERENCE NO.: 100:29291a,29294a
TITLE: Sterically stabilized aqueous polymer dispersions
INVENTOR(S): Davies, Stephen Parry; Thompson, Morice William
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Brit. UK Pat. Appl., 18 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

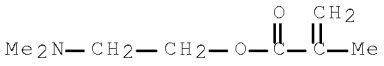
PATENT NO. KIND DATE APPLICATION NO. DATE

GB 2120261	A	19831130	GB 1983-12212 <--	19830504
GB 2120261	B	19851030		
EP 95263	A2	19831130	EP 1983-302507 <--	19830504
EP 95263	A3	19840229		
EP 95263	B1	19870722		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 28467	T	19870815	AT 1983-302507 <--	19830504
IN 159469	A1	19870523	IN 1983-DE300 <--	19830510
AU 8314502	A	19831124	AU 1983-14502 <--	19830512
AU 563454	B2	19870709		
US 4539362	A	19850903	US 1983-494886 <--	19830516
DK 8302221	A	19831121	DK 1983-2221 <--	19830518
ZA 8303592	A	19840229	ZA 1983-3592 <--	19830518
FI 8301774	A	19831121	FI 1983-1774 <--	19830519
FI 72528	B	19870227		
FI 72528	C	19870608		
NO 8301777	A	19831121	NO 1983-1777 <--	19830519
BR 8302643	A	19840117	BR 1983-2643 <--	19830519
CA 1203338	A1	19860415	CA 1983-428543 <--	19830519
JP 58213002	A	19831210	JP 1983-87821 <--	19830520
JP 04025282	B	19920430		
PRIORITY APPLN. INFO.:			GB 1982-14675 A <--	19820520
			EP 1983-302507 A <--	19830504

OTHER SOURCE(S): MARPAT 100:192548
ED Entered STN: 08 Jun 1984
AB Stable aqueous ethylenically unsatd. polymer dispersions are prepared by emulsifying the monomers in water and polymerizing in the presence of a nonionizable free-radical organic azo catalyst and an amphipathic steric dispersion stabilizer which is a block or graft copolymer. Thus, 1.38 g polyethylene glycol monomethyl ether monomethacrylate [26915-72-0] (mol. weight 2000) was dissolved in 80 g water and separated into equal portions. 4,4'-Azobis(cyanovaleric acid) bis(diethanolamide) [88190-85-6] (0.138 g) was dissolved in 1 portion, and 6 g Me methacrylate was suspended in the other portion. The 2 portions were mixed together ultrasonically at 50° for 4.5 h to give a monodisperse PMMA [9011-14-7] latex (particle size 330 nm) which did not visibly flocculate on addition of 10% aqueous CaCl2 solution
IT 35166-02-0P
(dispersions, manufacture of, polymerization catalysts and stabilizers in)
RN 35166-02-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (CA INDEX NAME)

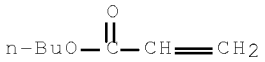
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



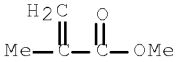
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC C08F004-04; C08F002-22
CC 35-4 (Chemistry of Synthetic High Polymers)
IT Dispersing agents
(for acrylic polymers in water)
IT 9003-20-7P 9003-53-6P 9011-14-7P 25852-37-3P 35166-02-0P
65572-63-6P 78228-25-8P 80044-51-5P 89678-92-2P
(dispersions, manufacture of, polymerization catalysts and stabilizers in)

L50 ANSWER 48 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1983:472278 HCAPLUS Full-text
DOCUMENT NUMBER: 99:72278
ORIGINAL REFERENCE NO.: 99:11221a,11224a
TITLE: Thermosetting cationic acrylic latex containing blocked isocyanates
INVENTOR(S): Das, Suryya Kumar; Kania, Charles Martin
PATENT ASSIGNEE(S): PPG Industries, Inc. , USA
SOURCE: Fr. Demande, 23 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2513647	A1	19830401	FR 1982-16144 <--	19820924
FR 2513647	B1	19860411		
US 4395444	A	19830726	US 1981-305566 <--	19810925
CA 1192328	A1	19850820	CA 1982-410468 <--	19820831
JP 58067764	A	19830422	JP 1982-165939 <--	19820922
JP 62040386	B	19870827		
DE 3235044	A1	19830428	DE 1982-3235044 <--	19820922
DE 3235044	C2	19850103		
PRIORITY APPLN. INFO.:			US 1981-305566 A <--	19810925

ED Entered STN: 12 May 1984

AB The title coatings, with good adhesion and efficient crosslinking, contain acrylic polymer latexes prepared by emulsion polymerization in acidic media in the presence of sulfonates of cationic surfactants. Thus, adding 90% of a mixture of Bu acrylate 282, Me methacrylate 294, and hydroxypropyl methacrylate 24 parts at 150 mL/h to FeCl3 0.3, H2O2 5.4, C12H25NH2 4.0, MeSO3H 6.6, H2O 827 parts and the remaining 10% monomers stirred at 72°, adding after 1 h 2-(dimethylamino)ethyl methacrylate 7.5, MeSO3H 6.6, and H2O 106.8 parts in 3 equal portions at 1-h intervals, and stirring 1 h at 72-75° gave a copolymer [85931-84-6] latex with solids content 40.1%, pH 2.9, and viscosity 44.5 cP at 22°. A mixture of this latex 55.6, TiO2 pigment paste 42.7, blocked triisocyanate 55.6, Bu2Sn dilaurate 0.7, Bu(OCH2CH2)2OH 5.9, and H2O 15 parts was coated on Bonderized Al and baked 42 s at 216°, 50 s at 224°, or 55 s at 232° to give a film with MEK resistance 4, 48, and 84 double rubs, resp.

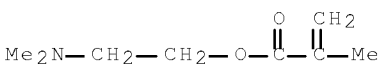
IT 85931-84-6P 86166-88-3P
(latex coatings, manufacture of, by emulsion polymerization)

RN 85931-84-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate and 1,2-propanediol mono(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

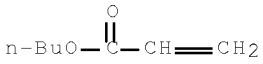
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



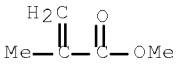
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2

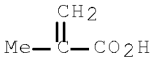


CM 4

CRN 27813-02-1
CMF C7 H12 O3
CCI IDS

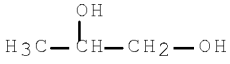
CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

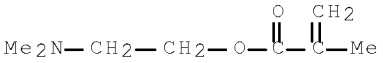
CRN 57-55-6
CMF C3 H8 O2



RN 86166-88-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenoic acid (9CI) (CA INDEX NAME)

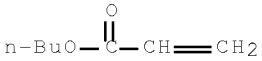
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



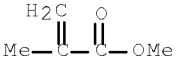
CM 2

CRN 141-32-2
CMF C7 H12 O2



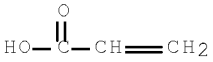
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



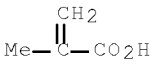
CM 5

CRN 27813-02-1
CMF C7 H12 O3
CCI IDS

CM 6

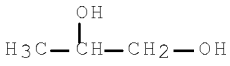
CRN 79-41-4

CMF C4 H6 O2



CM 7

CRN 57-55-6
CMF C3 H8 O2



IC C08L033-00; C08L025-14; C08F002-28; C08F212-08; C08F220-02; C08K005-29; C09D003-80
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 35
IT Surfactants
(amine methanesulfonates, for emulsion polymerization of acrylic compds.)
IT 85931-84-6P 86166-86-1P 86166-88-3P 86166-89-4P
(latex coatings, manufacture of, by emulsion polymerization)
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L50 ANSWER 49 OF 49 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1969:439498 HCAPLUS Full-text
DOCUMENT NUMBER: 71:39498
ORIGINAL REFERENCE NO.: 71:7307a,7310a
TITLE: Surface-active copolymers forming in emulsion polymerization, and their role in the process
AUTHOR(S): Eliseeva, V. I.; Kozlov, L. V.; Drezel's, S. S.
CORPORATE SOURCE: Inst. Fiz. Khim., Moscow, USSR
SOURCE: Doklady Akademii Nauk SSSR (1969), 186(1), 128-31 Phys Chem
CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE: Journal
LANGUAGE: Russian
ED Entered STN: 12 May 1984
AB The stabilization factors for latex of polymers formed by copolymn. of BuO2CCMe:CH2 or CH2:CHOAc with Me2NCH2CH2O2CCMe:CH2 were studied. The copolymers were prepared with persulfate initiator in aqueous phase without an emulsifier under Ar. The stable latexes were formed only in acid media and a typical electron photomicrograph of such product was displayed. The kinetic data on the progress of polymer formation at pH 5.4-5.8 showed that the surface-active materials of low mol. weight formed in the early stages are indeed polymeric radicals which increase in size with further chain growth, reaching large dimensions and no longer removable by electrodialysis. The kinetic data also showed that the copolymn. in these cases was a 2-step or 2-phase process in which the initial stages produce a water-soluble predominant component in the growing chain, while the latter stages proceed with larger

contribution by the other comonomer. The last stage of the reaction results in new particle formation without consumption of the already existing surface-active particles. The reaction thus starts with formation of polymer radicals enriched by water-soluble component; part of these after reaching a certain size precipitate from solution and aggregate into particles which solubilize both monomers owing to their diphilic nature. Hence the process proceeds in the monomer phase to form the high-mol.-weight copolymer. The surface of the latter is stabilized by sorption of the water-soluble surface-active radicals and by its own diphilic nature.

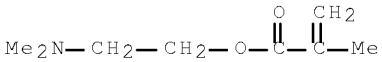
IT 26658-83-3P
(preparation of, kinetics of)

RN 26658-83-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate (CA INDEX NAME)

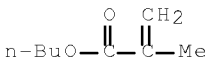
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



CM 2

CRN 97-88-1
CMF C8 H14 O2



CC 35 (Synthetic High Polymers)

IT Surfactants, preparation
(in polymerization of butyl methacrylate with (dimethylamino)ethyl methacrylate)

IT 26658-83-3P
(preparation of, kinetics of)

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=> d his nofile

     (FILE 'HOME' ENTERED AT 08:33:24 ON 24 APR 2009)

     FILE 'HCAPLUS' ENTERED AT 08:33:35 ON 24 APR 2009
L1            2 SEA SPE=ON  ABB=ON  PLU=ON  US20060217285/PN
                SEL RN

     FILE 'REGISTRY' ENTERED AT 08:33:48 ON 24 APR 2009
L2            6 SEA SPE=ON  ABB=ON  PLU=ON  (9003-49-0/BI OR 281198-01-4/BI
                 OR 33114-26-0/BI OR 363619-87-8/BI OR 688811-07-6/BI OR
                691355-68-7/BI)
                E DMAA/CN
L3            5 SEA SPE=ON  ABB=ON  PLU=ON  DMAA/CN
                E 2-(DIMETHYLAMINO)ETHYL ACRYLATE/CN
L4            1 SEA SPE=ON  ABB=ON  PLU=ON  "2-(DIMETHYLAMINO)ETHYL
                ACRYLATE"/CN
L5              STR
L6           50 SEA SSS SAM L5
L7            5 SEA SPE=ON  ABB=ON  PLU=ON  L2 NOT 1/NC
L8            1 SEA SPE=ON  ABB=ON  PLU=ON  L7 NOT S/ELS
                E  (C8 H16 N O2 . C H3 O4 S)X/MF
L9            2 SEA SPE=ON  ABB=ON  PLU=ON  "(C8 H16 N O2 . C H3 O4
                S)X"/MF
L10           4 SEA SPE=ON  ABB=ON  PLU=ON  L7 NOT L9

     FILE 'HCAPLUS' ENTERED AT 08:39:51 ON 24 APR 2009
L11          17 SEA SPE=ON  ABB=ON  PLU=ON  L10

     FILE 'REGISTRY' ENTERED AT 08:40:35 ON 24 APR 2009
L12       52294 SEA SPE=ON  ABB=ON  PLU=ON  141-32-2/CRN
L13       20368 SEA SSS FUL L5
L14           5 SEA SPE=ON  ABB=ON  PLU=ON  L13 AND L2
L15             STR
L16          50 SEA SUB=L13 SSS SAM L15
L17        3984 SEA SUB=L13 SSS FUL L15
                SAV PEZ196/A L13
                SAV L17 PEZ196A/A

     FILE 'HCAPLUS' ENTERED AT 08:57:17 ON 24 APR 2009
L18        4249 SEA SPE=ON  ABB=ON  PLU=ON  L17
L19             QUE SPE=ON  ABB=ON  PLU=ON  FABRIC? OR TEXTIL? OR FIBER?
                OR FIBRE? OR FIBROUS?
L20        1618 SEA SPE=ON  ABB=ON  PLU=ON  L18(L)PREP/RL
L21         114 SEA SPE=ON  ABB=ON  PLU=ON  L20 AND L19
L22           1 SEA SPE=ON  ABB=ON  PLU=ON  L21 AND L1
                E SURFACTANTS/CT
L23      271672 SEA SPE=ON  ABB=ON  PLU=ON  SURFACTANTS+PFT,NT/CT
L24         245 SEA SPE=ON  ABB=ON  PLU=ON  L20 AND L23
L25             QUE SPE=ON  ABB=ON  PLU=ON  (BLOCK? OR GRAFT? OR STAR? OR
                BRANCH?)(5A)COPOLYMER?
L26          17 SEA SPE=ON  ABB=ON  PLU=ON  L21 AND L25
L27          75 SEA SPE=ON  ABB=ON  PLU=ON  L24 AND L25
L28           1 SEA SPE=ON  ABB=ON  PLU=ON  L27 AND  ZWITTERION?
L29             QUE SPE=ON  ABB=ON  PLU=ON  ANTIWRINK? OR  CREASEPROOF? OR
                CREASE PROOF? OR   LAUNDER?  OR CLEANSING? OR (HAIR? OR
                SKIN)(3A)(TREAT? OR PROTECT?)
L30           2 SEA SPE=ON  ABB=ON  PLU=ON  L27 AND L29
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L31           3 SEA SPE=ON  ABB=ON  PLU=ON  L24 AND L29
L32          13 SEA SPE=ON  ABB=ON  PLU=ON  L20 AND L29
L33          29 SEA SPE=ON  ABB=ON  PLU=ON  L26 OR L28 OR (L30 OR L31 OR
                L32)
L34           2 SEA SPE=ON  ABB=ON  PLU=ON  L33 AND L1
L35          13 SEA SPE=ON  ABB=ON  PLU=ON  L33 AND (1840-2002)/PRY,AY,PY
L36          10 SEA SPE=ON  ABB=ON  PLU=ON  L21 AND POLYMER?/SC,SX
L37          37 SEA SPE=ON  ABB=ON  PLU=ON  L24 AND POLYMER?/SC,SX
L38          46 SEA SPE=ON  ABB=ON  PLU=ON  L36 OR L37
L39          36 SEA SPE=ON  ABB=ON  PLU=ON  L38 AND (1840-2002)/PRY,AY,PY

     FILE 'REGISTRY' ENTERED AT 09:11:04 ON 24 APR 2009
                E SULFOPROPYL METHYLAMMONIUM ETHYL METHACRYLATE/CN
L40           1 SEA SPE=ON  ABB=ON  PLU=ON  "SULFOPROPYL METHACRYLATE-ETHYL
                 METHACRYLATE-HYDROXYETHYL METHACRYLATE-ETHYL ACRYLATE
                COPOLYMER"/CN
L41           1 SEA SPE=ON  ABB=ON  PLU=ON  3637-26-1/RN
L42         260 SEA SPE=ON  ABB=ON  PLU=ON  3637-26-1/CRN

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L43          96 SEA SPE=ON  ABB=ON  PLU=ON  L41
L44         299 SEA SPE=ON  ABB=ON  PLU=ON  L42
L45           0 SEA SPE=ON  ABB=ON  PLU=ON  (L43 OR L44) AND L39
L46          60 SEA SPE=ON  ABB=ON  PLU=ON  (L43 OR L44) AND L18
L47           5 SEA SPE=ON  ABB=ON  PLU=ON  L46 AND L19
L48           2 SEA SPE=ON  ABB=ON  PLU=ON  L46 AND L29
L49           2 SEA SPE=ON  ABB=ON  PLU=ON  (L47 OR L48) AND (1840-2002)/PR
                Y,AY,PY
L50          49 SEA SPE=ON  ABB=ON  PLU=ON  L35 OR L39 OR L45 OR
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